SHARP SERVICE MANUAL

No. 00ZFDC600USME

FACSIMILE

MODEL FO-DC600

MODEL	SELECTION CODE	DESTINATION
FO-DC600	U	U.S.A./Canada

Chapters 1, 2, 3, 7 and 8 of this manual are omitted because they are partly common to the FO-4400U/ FO-DC500U. Please refer to previous service manual (00ZFO4400USME) / (00ZFODC500SME) for these chapters.

OPTION

Toner cartridge:	**FO-50ND**
Drum cartridge:	**FO-47DR**
Option memory:	**FO-8MK**
Verification stamp:	**FO-45VS**
Paper cassette:	**FO-CS1**
LAN Network interface kit:	**FO-LN1**
Network printer kit:	**FO-NP1**
Network scanner kit:	**FO-NS2**
Dual line kit:	**FO-60DL**

NOTE:

- **FO-NP1 (Network Printer Kit) and FO-60DL (Dual Line Kit) can not be mounted simultaneously.**
- **FO-LN1 (LAN Network Interface Kit) and FO-60DL (Dual Line Kit) can be mounted simultaneously. However, multi-operation of 2 line communication and network scan is not possible.**

CAUTION

This laser printer is a class 1 laser product that complies with 21CFR 1040.10 and 1040.11 of the CDRH or IEC60825-1 standard. This means that this machine does not produce a hazardous laser radiation. The use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This laser radiation is not a danger to the skin, but when an exact focusing of the laser beam is achieved on the eyes retina, there is danger of spot damage to the retina.

The following cautions must be observed to avoid exposure of the laser beam to your eyes at the time of servicing.

1) When a problem in the laser optical unit has occurred, the whole optical unit must be exchanged as a unit.
2) Do not look into the machine with the Main Switch turned on after removing the Toner/Developer unit and Drum Cartridge.
3) Do not look into the laser beam exposure slit of the Laser Optical Unit with the connector connected when removing and installing the Optical Unit.
4) The cover of Laser Printer Unit contains the Safety Interlock Switch.

   Do not defeat the safety interlock by inserting wedges or other items into the switch slot.

Laser Wave Length : 770-795 nm
Laser Pulse Times : 51.3 ns
Laser Output Power : 5 mW

Parts marked with "⚠" is important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

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PARTS GUIDE

CAUTION FOR BATTERY REPLACEMENT

(Danish) ADVARSEL !
Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandoren.

(English) Caution !
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type
recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

(Finnish) VAROITUS
Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan
tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

(French) ATTENTION
Il y a danger d'explosion s' il y a remplacement incorrect
de la batterie. Remplacer uniquement avec une batterie du
même type ou d'un type recommandé par le constructeur.
Mettre au rébut les batteries usagées conformément aux
instructions du fabricant.

(Swedish) VARNING
Explosionsfare vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent
typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens
instruktion.

(German) Achtung
Explosionsgefahr bei Verwendung inkorrekter Batterien.
Als Ersatzbatterien dürfen nur Batterien vom gleichen Typ oder
vom Hersteller empfohlene Batterien verwendet werden.
Entsorgung der gebrauchten Batterien nur nach den vom
Hersteller angegebenen Anweisungen.

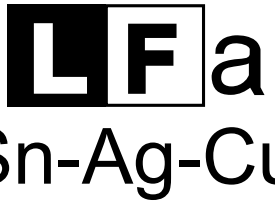
PRECAUTIONS FOR USING LEAD-FREE SOLDER

① Employing lead-free solder

The **Power supply PWB** of this model employs lead-free solder. This is indicated by the "LF" symbol printed on the PWB and in the service manual.

The suffix letter indicates the alloy type of the solder.

Example:



Indicates lead-free solder of tin, silver and copper.

② Using lead-free solder

When repairing a PWB with the "LF" symbol, only lead-free solder should be used. (Using normal tin/lead alloy solder may result in cold soldered joints and damage to printed patterns.)

As the melting point of lead-free solder is approximately 40ºC higher than tin/lead alloy solder, it is recommended that a dedicated bit is used, and that the iron temperature is adjusted accordingly.

③ Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is higher and has poorer wettability (flow), to prevent damage to the land of the PWB, extreme care should be taken not to leave the bit in contact with the PWB for an extended period of time. Remove the bit as soon as a good flow is achieved.

The high content of tin in lead free solder will cause premature corrosion of the bit.

To reduce wear on the bit, reduce the temperature or turn off the iron when it is not required.

Leaving different types of solder on the bit will cause contamination of the different alloys, which will alter their characteristics, making good soldering more difficult.

It will be necessary to clean and replace bits more often when using lead-free solder. To reduce bit wear, care should be taken to clean the bit thoroughly after each use.

CHAPTER 1. GENERAL DESCRIPTION

[1] Specifications

• GENERAL

Automatic dialing: Conventional Auto Dialing:
Rapid Key Dialing: 59 numbers
Speed Dialing: 200 numbers
Personal Auto Dial Books: 40 books
(59 Rapid Keys, 16 Speed Dial numbers per book)

Memory size* : 16 MB (approx. 1,000 pages)
Optional memory: FO-8MK (8 MB; approx. 500 pages)

Modem speed: 33,600 bps (max.) with automatic fallback to lower speeds

Transmission time* : Approx. 2 seconds

Toner cartridge yield: (continuous printing, 4% page coverage, letter paper): **Initial starter cartridge** (included with fax machine): Approx. 3000 pages
Replacement cartridge (FO-50ND): Approx. 6000 pages

Drum cartridge yield: **Initial starter cartridge** (included with fax machine): 20,000 pages (avg.)
Replacement cartridge (FO-47DR): 20,000 pages (avg.)

Resolution: Standard: 203 x 98 lines/inch (8 x 3.85 lines/mm)
Fine/Halftone: 203 x 196 lines/inch (8 x 7.7 lines/mm)
Super fine: 203 x 391 lines/inch (8 x 15.4 lines/mm)
Ultra fine: 406 x 391 lines/inch (16 x 15.4 lines/mm)

Halftone (grayscale): 64 levels

Automatic document feeder: Letter paper (20 lb): Max. 50 pages
Legal paper: Max. 20 pages
(Note: 11” x 17” paper must be loaded one page at a time.)

Paper capacity: 750 sheets (20 lb)
(500-sheet cassette available as option)

Compression scheme: MMR, MR, MH, Sharp (H2), JBIG

Applicable telephone line: Public switched telephone network

Compatibility: ITU-T (CCITT) G3 mode, Super G3 mode

Printing resolution: **Horizontal:** 406 dots/inch (16 dots/mm)
Vertical: 391 lines/inch (15.4 lines/mm)
600 x 600 dpi (Network Print: FO-NP1)

Input document size: Automatic feeding:
Width: 5.8 to 10.1” (148 to 256mm)
Length: 5.0 to 14.3” (128 to 364 mm)
Manual feeding:
Width: 5.8 to 11.0” (148 to 279 mm)
Length: 5.0 to 19.0” (128 to 483 mm)

Effective scanning width: 10.1” (256 mm) max.

Effective printing width: 8.0” (203 mm) max.

Printing speed: 16 ppm

Reception modes: Auto/Manual

Instascan speed: 1.3 sec/page (letter paper; scan time only, excludes document feeding time)

Full Dual Access: Yes

Copy function: Single/Multi/Sort (99 copies/page)

Power requirements: 120 V AC, 60 Hz

Operating temperature: 50 - 86°F(10 - 30°C)

Humidity: 20 to 85 % RH

Power consumption: Stand-by: 9 W
Stand-by(all options installed: 16W
Maximum: 800 W

Dimensions: Width: 21.5” (546 mm)
Depth: 16.2” (412 mm)
Height: 17.0” (431 mm)
(Not including paper tray or attachments)

Weight: Approx. 48.5 lbs. (22.0 kg)
(Not including supplies paper tray or attachments)

* Based on ITU-T Test Chart #1 at standard resolution, excluding time for protocol signals (i.e., ITU-T phase C time only).

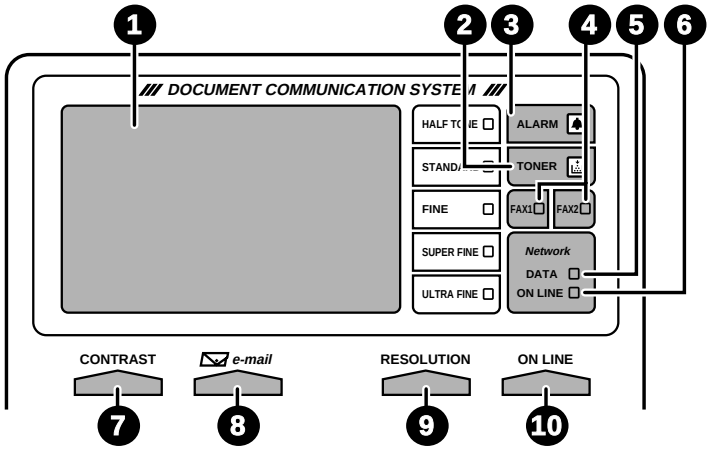
<IMPORTANT PLEASE READ FIRST>

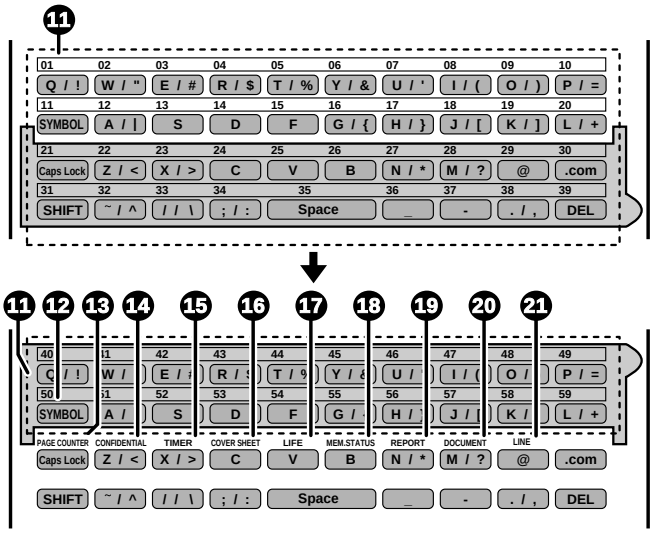
To avoid problems with supplies, please don’t use supplies from other units. Please use new supplies, when supply changes are required.

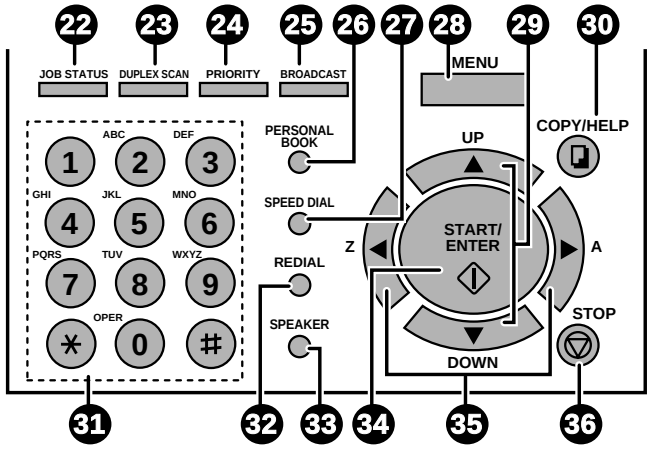
[2] Life of consumable

Section	Part	Estimated Life	Replaced by
Toner cartridge	Replacement cartridge (FO-50ND)	6,000 prints (at Letter/4% chart)	User
Drum cartridge	Replacement cartridge (FO-47DR)	20,000 prints (at Letter/4% chart)	User
Paper feed	Transfer roller (Refer to the P/G No. 10-8) (0KW4127410302)	50,000 prints	Service Engineer
Fuser	Fusing unit (Refer to the P/G No. 9-14) (0KW4127035501)	50,000 prints	Service Engineer
Paper transport	Paper transfer roller (Refer to the P/G No. 8-6) (0KW4127300101)	Cleaning as needed	————————

[3] Operation panel (1)







1 Display
This displays messages and prompts to help you operate the machine.

2 TONER indicator
This blinks when the toner cartridge nears empty, and lights steadily when the toner cartridge needs replacement.

3 ALARM indicator
This blinks when one of the paper sources is empty or the drum cartridge is near the end of its life (printing is still possible). This lights steadily when the drum cartridge has reached the end of its life, all paper sources are empty, the print compartment cover is open, or a paper jam has occurred (printing is not possible). A message will appear in the display to indicate the problem.

4 FAX 1 / FAX 2 lights
When the dual line option is installed, FAX 1 lights when Line 1 is being used and FAX 2 lights when Line 2 is being used. When the dual line option is not installed, only FAX 1 lights when the telephone line is being used (the FAX 2 light does not operate).

5 DATA light
This blinks when the machine is receiving a print job over the network (only when the network printer option is installed).

6 ON LINE light
When this light is on, the machine can receive data (print jobs) over the network. The light is turned on or off with the ON LINE key. (Only available when the network printer option is installed).

7 CONTRAST key
Press this key to adjust the contrast before sending or copying a document.

8 E-mail key
Press this key to send a scanned document to an e-mail recipient. (Only available when the network scanner option is installed).

9 RESOLUTION key
Press this key to adjust the resolution before sending or copying a document. An indicator will light next to the selected setting (HALFTONE, STANDARD, FINE, SUPER FINE or ULTRA FINE).

10 ON LINE key
Press this key to select whether the machine is online or off-line (the ON LINE light is on when the machine is online). The machine must be online to receive print jobs over the network. (Only available when the network printer option is installed).

11 Rapid Dial Keys
Press one of these keys to dial a fax number automatically, or specify an e-mail recipient if the network scanner option is installed. Note that you must attach the Rapid Key labels. When navigating through the display menu, a Rapid Key can also be pressed in place of the numeric keys to enter a two-digit number (for example, you can press Rapid Key 01 to enter the number "01").

12 SYMBOL key
When entering a name, press this key to enter the symbol on a letter key (the character to the right of the slash). Press the key again to turn off symbol entry mode.

13 PAGE COUNTER key
Press this key to include a slash and the total number of pages after each page number on the pages of a transmitted document.

14 CONFIDENTIAL key
Press this key to send or print out a confidential document.

Operation panel (2)

15 TIMER key
Press this key to set a fax operation to be performed automatically at a later time.

16 COVER SHEET key
Press this key to include a cover sheet when sending a fax.

17 LIFE key
Press this key, followed by START/ENTER, to check the total number of pages printed by the fax machine. (Press STOP to return to the data and time display.

18 MEM. STATUS key
Press this key to check the status of fax transmission jobs, copy jobs, and fax receptions. This key can also be used to cancel a job.

19 REPORT key
Press this key to print out a report on the most recently completed transmission or reception.

20 DOCUMENT key
Press this key to transmit a document directly from the feeder without reading it into memory.

21 LINE key
When the dual line option has been installed, press this key before dialing to select the line.

22 JOB STATUS key
Press this key to display the FAX-STATUS screen, which shows information on the fax job that is currently in progress. If the dual line option is installed, the fax status will appear separately for each line. If the network printer option is installed, the NETWORK PRINT STATUS screen showing information on current printer activity will appear following the FAX STATUS screen (note that "IDLE" will appear if a print job has been executed but is not yet being printed). To cancel a job that is in progress, display the job in the status screen and then press STOP. To move through each of the screens and return to the date and time display, press JOB STATUS one or more times as needed.

23 DUPLEX SCAN key
Press this key to transmit or copy a two-sided document.

24 PRIORITY key
Press this key when you need to transmit a document ahead of other documents waiting in memory for transmission.

25 BROADCAST key
Press this key to send a document to a group of fax machines, or to a group of e-mail recipients if the network scanner option is installed.

26 PERSONAL BOOK
Press this key to use or store an auto-dial number in a personal book. If the book has a passcode, enter the passcode; otherwise, select the book with ▲ or ▼ and press START/ENTER.

27 SPEED DIAL key
Press this key to dial a Speed Dial number.

28 MENU key
Press this key to select special functions and setting.

29 UP and DOWN arrow keys
Volume setting: Press these keys to change the speaker volume when the **SPEAKER** key has been pressed, or the ringer volume at any other time.
MENU key settings: Press these keys after pressing the **MENU** key to scroll through the **MENU** key settings.

30 COPY/HELP key
When a document is in the feeder, press this key to make a copy of a document. At any other time, press this key to print out the Help List, a quick reference guide to the operation of your fax machine.

31 Dial keypad (numeric keys)
Use these keys to dial and program fax numbers.

32 REDIAL key
Press this key to automatically redial the last number dialed.

33 SPEAKER key
Press this key when transmitting a document by Normal Dialing to listen to the line and verify the response of the receiving fax machine.

34 START/ENTER key
Press this key to begin fax transmission when using Speed Dialing, Direct Keypad Dialing, or Normal Dialing. This key is also used to select settings in the **MENU** key menu and complete entries when storing names and numbers.

35 Left and right arrow keys
Auto-dial numbers: Press these keys to search for an auto-dial number when sending a fax.

36 STOP key
Press this key to cancel an operation before it is completed.

[4] Transmittable documents

Refer to the service manual of FO-DC500U.

[5] Installation

Refer to the service manual of FO-DC500U.

[6] Quick reference guide

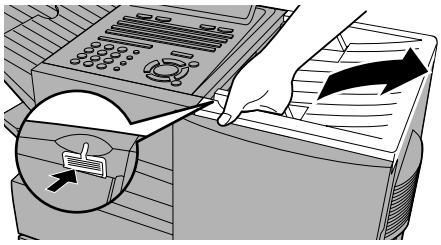
Refer to the service manual of FO-DC500U.

[7] Installing the Dual Line Kit (FO-60DL)

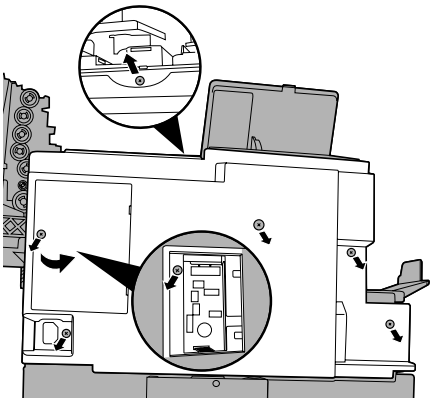
Note: The FO-60DL Dual Line Kit cannot be installed if the FO-NP1 Network Printer Kit is installed.

Important! The following procedure is to be performed only by a qualified service technician. Be sure to turn off the power, unplug the power cord, and unplug the telephone line before proceeding. In addition, touch a grounded piece of metal to discharge any static electricity that may be on your body. Make sure that an extension phone is not connected to the machine.

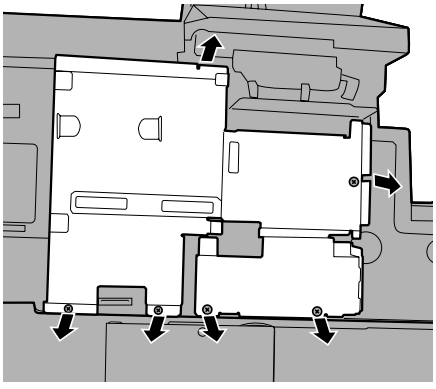
① Press the cover release to open the print compartment cover.



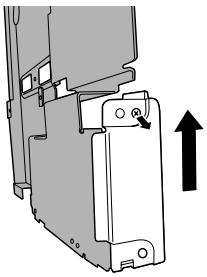
② Remove 6 screws from the rear cover.
(Remember which screw secures the small cover on the left side of the rear cover, as it must be replaced in the same position).
Remove the small cover, and then remove the screw underneath. Remove the rear cover.



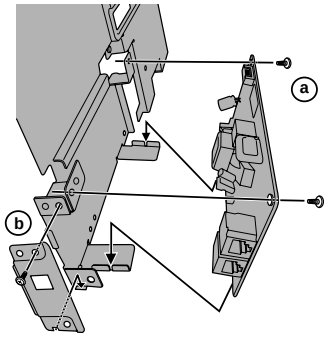
③ Remove 6 screws and then remove the metal plate.



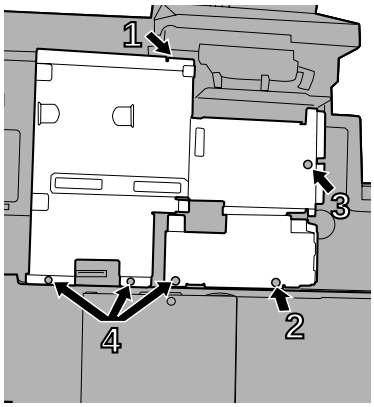
④ Remove the screw that holds the small side plate to metal plate that was removed Step 3. Slide the small side plate up and remove it from the metal plate. (Note: The small side plate is not no longer needed, however, the screw is used again in “b” of Step 5.)



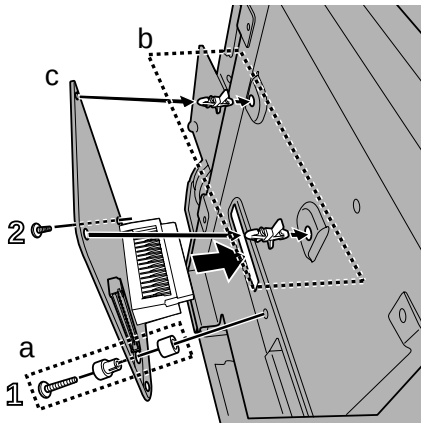
⑤ a. Attach the LIU board to the metal plate, positioning the modular jacks as shown. The bottom edge of the board should fit into the slots indicated by the arrows. Secure the LIU board with two of the 6 mm screws.
b. Attach the provided metal side plate.



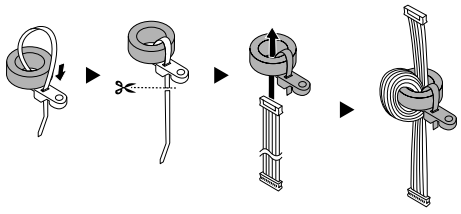
⑥ Replace the metal plate and secure with screws in the order shown.



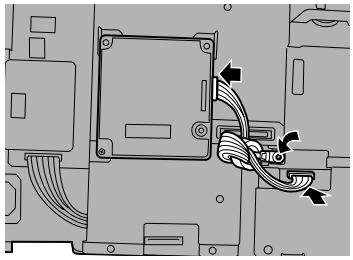
⑦ Attach the dual line control board.
a. Insert the bushing into the hole in the dual line control board from the outer side and secure it with the collar on the inner side.
b. Insert the winged end of the pin spacers into the metal plate, with wings extended out vertically.
c. Attach the board so that the connector inserts into the connector in the metal plate. Make sure that the pin spacers go into the holes in the board. Secure the board with the 18 mm screw (which goes into the bushing) and the remaining 6 mm screw. Tighten the screws in the order shown.



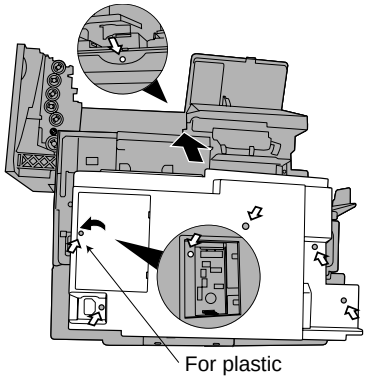
⑧ Fasten the band to the core as shown and cut off the excess end. Insert the cable through the core and wind it around the core twice.



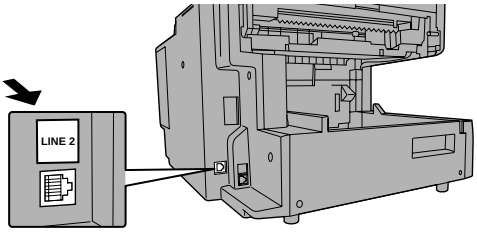
⑨ Connect the cable to the LIU board and the dual line control board. Secure the core band with the 10 mm screw.



⑩ Replace the rear cover.
(Be sure to replace the screw that secures the small cover in the same position, as it is for plastic.)



⑪ Affix the “”LINE 2” label above the new jack.

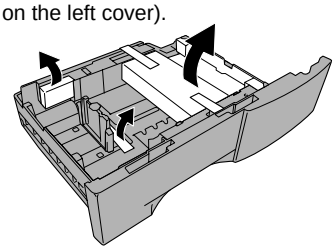


[8] Installing the Third Paper Cassette (FO-CS1)

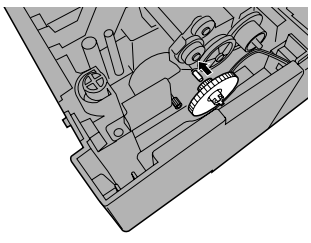
Important! Be sure to turn off the power and unplug the power cord before proceeding.

① Remove the packing material and tape from the third paper cassette.

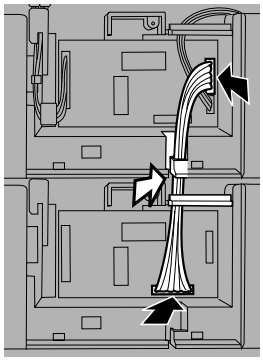
② Remove the covers from the sides of the second cassette (the cassette already installed on the machine), using a flat-head screwdriver to pry each of the catches at the bottom of the covers free (2 on the right cover, 3 on the left cover).



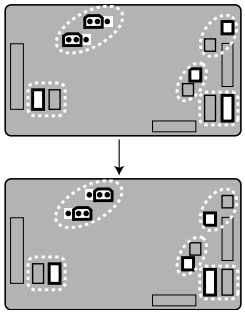
③ Insert the green gear into the third cassette as shown. The side of the gear that has the small thirdly gear should face the inside of the cassette, and should fit onto the metal shaft. Push the gear in until the tab on the outer side goes into the slot on the metal shaft. (Note: The gear is only used in the third cassette.)



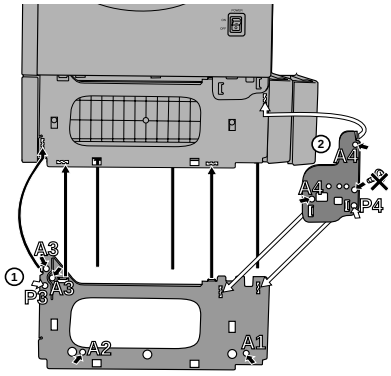
④ Place the machine on top of the third cassette, and remove the small cover from the rear of the second cassette. Connect the 10-pin cable as shown, and insert it behind the guide indicated by the white arrow.



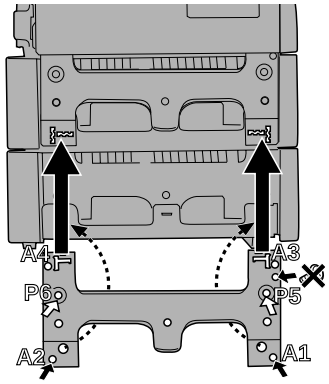
⑤ Change the positions of the connectors on the circuit board of the third cassette as shown (do not change the connectors on the second cassette). Replace the small cover on the rear of the second cassette, and attach the provided small cover on the rear of the third cassette.



⑥ Attach the large support plate and then the small support plate to the right side of the cassettes. Use 6 mm screws for the holes marked with “A”, and 10 mm screws for the holes marked with “P”. Secure the screws in the order indicated by the numbers.



⑦ Attach the support plate to the left side of the cassette. Use 6 mm screws for holes marked with “A”, and 10 mm screws for holes marked with “P”, securing the screws in the order indicated by the numbers. (Note that the top hole on the right does not require a screw.)



CHAPTER 2. ADJUSTMENTS

[1] Adjustments

General

Since the following adjustments and settings are provided for this model, make adjustments and/or setup as necessary.

1. Adjustments

Adjustments of output voltage (FACTORY ONLY)

1. Install the power supply unit in the machine.
2. Set the recording paper and document.
3. When the document is loaded, power is supplied to the output lines. Confirm that outputs are within the limits below.

Output voltage settings

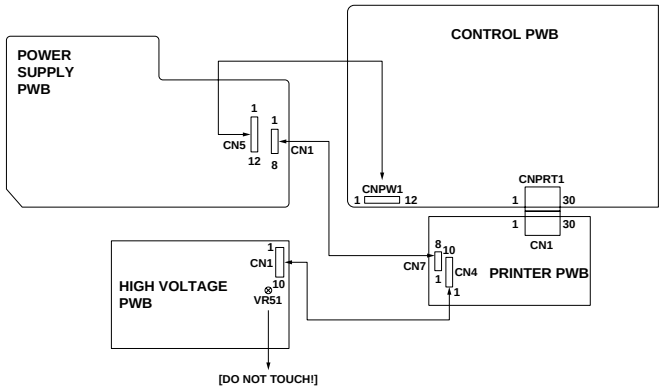


Fig. 1

Output	Voltage limits	Note
+5V MAIN	4.947V~5.25V	CN5 7pin ↔ 8pin
+24V SUB	23.04V~24.96V	CN5 1pin ↔ 2pin

Connector No. / Pin No.	CN4 / CN1
1	11
2	10
3	9
4	8
5	7
6	6
7	5
8	4
9	3
10	2

Connector No. / Pin No.	CN5 / CNPW1
1	+24V SUB
2	MG
3	MG
4	MG
5	+24V MAIN
6	+24V MAIN
7	+5V MAIN
8	DG
9	DG
10	DG
11	+5V MAIN
12	+5V MAIN

Connector No. / Pin No.	CN1 / CN7
1	+24V MAIN
2	MG
3	DG
4	DG
5	+5V MAIN
6	+5V MAIN
7	HEATER ON
8	H-RELAY OFF

2. IC protectors replacement

ICPs (IC Protectors) are installed to protect the CIS unit, panel PWB unit, TX motor drive circuit and verification stamp drive circuit. ICPs protect various ICs and electronic circuits from an overcurrent condition.
The location of ICPs are shown below:

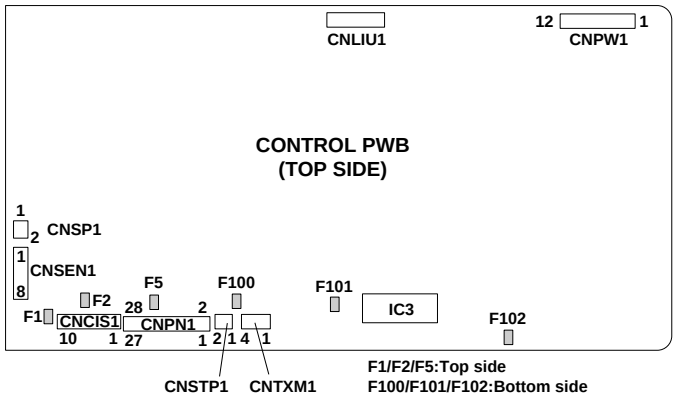


Fig. 2

(1) F1 (ICP-S0.5) F2 (ICP-S1.0) is installed in order to protect IC's from an overcurrent generated in the CIS unit. If F1 or F2 are open, replace it with a new one.
(2) F5 (ICP-S1.0) is installed in order to protect IC's from an overcurrent generated in the panel PWB unit. If F5 is open, replace it with a new one.
(3) F100 (ICP-S1.0) is installed in order to protect IC's from an overcurrent generated in the verification stamp drive circuit. If F100 is open, replace it with a new one.
(4) F101 (ICP-S1.8) is installed in order to protect IC's from an overcurrent generated in the TX motor drive circuit. If F101 is open, replace it with a new one.
(5) F102 (ICP-S0.7) is installed in order to protect IC's from an overcurrent generated in the LCD drive circuit. If F102 is open, replace it with a new one.
In addition to the replacement of F1, F2, F5, F100, F101 andF102 the factor causing F1, F2, F5, F100, F101 and F102 to open must also be repaired. If not, F1, F2, F5, F100, F101 and F102 will open again.
Replacement parts
ICP-S0.5 (Sharp code: VHViCPS05//-1)
ICP-S0.7 (Sharp code: VHViCPS07//-1)
ICP-S1.0 (Sharp code: VHViCPS10//-1)
ICP-S1.8 (Sharp code: VHViCPS18//-1)

3. Settings

(1) Dial mode selector

OPTION SETTING: DIAL MODE (Soft Switch No. SW2 DATA No. 1 for Line-1 and SW24 DATA No.1 for Line-2 with Optional Dual Line Kit)
Use this to set the fax machine to the type of telephone line you are on.

• The factory setting is "TONE".

(step 1) Select "OPTIONAL SETTING".
KEY: [MENU] (4)
DISPLAY: 4:OPTIONAL SETTING / ENTER #(01-36,▶,◀)

(step 2) Select "DIAL MODE".
KEY: (2)(2)
DISPLAY: 22: DIAL MODE / 1=TONE, 2=PULSE

<With optional line unit>
22: DIAL MODE / 1=LINE-1, 2=LINE-2

Select line using "1" or "2"
KEY: (1)
DISPLAY: 1: LINE-1 / 1=TONE, 2=PULSE
KEY: (2)
DISPLAY: 2: LINE-2 / 1=TONE, 2=PULSE

(step 3) Select, using "1" or "2".
KEY: (1)
DISPLAY: TONE SELECTED
KEY: (2)
DISPLAY: PULSE SELECTED

(step 4) End, using the "STOP" key.
KEY: STOP

[2] Diagnostics and service soft switches

1. Operating procedure

Two kinds of diagnoses are supported.

1-1. Fax diagnosis

This diagnosis is concerned with the main body of fax which is used for production and service support.

Entering the diagnostic mode

Press [MENU] → [9] → [✳] → [8] → [#] → [7] , and the following display will appear.

	1st Line	
	2nd Line	
FAX : TA70✳	3rd Line	F/W version
NIC :x.xxx	4th Line	NIC board version
PRN :xxxx	5th Line	PCL board version
	6th Line	
PRN MEMORY SIZE = 16(MB)	7th Line	Memory size
GAA : ESx GAB : ESx	8th Line	GATE arrayA/B version
	9th Line	

Then press the [START] key. Select the desired item with the [✳] key and the [#] key or select with the rapid key.

Enter the mode with the [START] key.

(Diag・specifications)

[MENU] → (9)(✳)(8)(#)(7) → TA70✳ → [START]

[A]	[START]	SOFT SWITCH MODE
[B]	[START]	PRINT AREA
[C]	[START]	ROM & RAM CHECK
[D]	[START]	AUTO FEEDER MODE
[E]	[START]	AGING MODE
[F]	[START]	PANEL CHECK MODE
[G]	[START]	OPTICAL ADJUST MODE
[H]	[START]	PRODUCT CHECK
[I]	[START]	SIGNAL SEND MODE
[J]	[START]	COMM. CHECK MODE
[K]	[START]	MEMORY CLEAR MODE
[L]	[START]	FLASH MEMORY CHECK
[M]	[START]	ALL FAX/TEL. ENTRY MODE
[N]	[START]	DEPT. PASSCODE
[O]	START	CONF. PASSCODE
[P]	[START]	SIGNAL SEND MODE 2
[Q]	[START]	MEMORY SET MODE
[R]	[START]	STAMP AGING MODE
[S]	[START]	DIAL TEST MODE
[T]	[START]	COPY DIAG MODE
[U]	[START]	LCD CHECK MODE
[V]	[START]	PERSONAL BOOK LIST
[W]	[START]	FONT LIST PRINT MODE(*)
[X]	[START]	NO FUNCTION

*: FONT LIST PRINT MODE can be used only when the network function is effective.

1-2. Print diagnosis

This diagnosis is concerned with the print which is used for production and service support.

Entering the diagnostic mode

Press [MENU] → [9] → [✳] → [8] → [#] → [6] , and the following display will appear.

[PCU ROM VER.:✳✳]

Then press the [START] key. Select the desired item with [✳] the key and the [#] key or select with the rapid key.

Enter the mode with the [START] key.

(Diag・specifications)

[MENU] → (9)(✳)(8)(#)(6) → PCU ROM Ver.: ✳✳ → [START]

[01]	[START]	AREA PRINT MODE 1
[02]	[START]	CHECK PATTERN 1
[03]	[START]	CHECK PATTERN 2
[04]	[START]	CHECK PATTERN 3
[05]	[START]	CHECK PATTERN 4
[06]	[START]	PAPER FEED AGING 1
[07]	[START]	PAPER FEED AGING 2
[08]	[START]	BIAS ADJUST MODE2
[09]	[START]	LIFE SET MODE
[10]	[START]	LIFE ALL CLEAR
[11]	[START]	LIFE ENTRY MODE
[12]	[START]	LIFE CLEAR MODE

Memory clear when power is turned on

Pressing the START and STOP keys, turn on the main power, and the following message will be displayed.

```
MEMORY CLEAR ?
1 = ALL , 2 = IMAGE , 3 = NO
```

1 = All the data will be deleted including initially registered data.
2 = Delete the image file to be used in transmission. This will delete all the data related to communication such as reserved transmission or intercepting. However, the data initially registered will not be deleted.
3 = Memory will not be cleared and the machine enters stand-by mode.

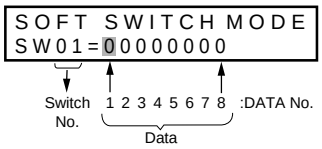
2. Diagnostic items description

2-1. Fax diagnosis

A) Soft switch mode

In this mode, the soft switch are set and the soft switch list is printed.

Soft switch mode screen



① Switch number selection

- Press START key for setting of the next soft switch. If the soft switch number is the final, pressing START key will exit the soft switch mode.
- Enter two digits of a soft switch number to set the switch number. If a switch number of nonexistent soft switch is entered, key error buzzer sounds to reject the input.

② Data number selection

The cursor position shows the data to be set.

Pressing # key or → key moves the cursor to the right. If, however, the cursor is on data number 8, pressing # key or → key shifts the cursor to data number 1 of the next switch number. If the switch number is the final, pressing # key or → key will exit the soft switch mode.

Pressing ⋊ key or ← key moves the cursor to the left. If, however, the cursor is on data number 1, pressing ⋊ key or ← key shifts the cursor to data number 1 of the former switch number. If the switch number is 1, pressing ⋊ key or ← key will not move the cursor and the error buzzer will sound.

③ Data setting method

Press the MENU key, and the data at the position of the cursor will be reversed to 0 when it is 1, or to 1 when it is 0. (If the soft switch can be changed at the bit (Refer to ⑥.), the error buzzer will sound with the process not received.)

④ Outputting method of soft switch list

In the soft switch mode, press the REPORT key, and the soft switch list will be output.

If the recording paper runs out or is clogged, the key error buzzer will sound with the process not received.

⑤ Storage of data

In the following case, the data of the soft switches set will be stored.

- It is shifted to set the next soft switch by pressing the START switch.
- It is shifted to set the next soft switch with the [#] key.
- It is shifted to set the last soft switch with the [⋊] key.
- It is shifted to set another soft switch by inputting two digits as the switch number. (When 2 digits are completely input.)
- Output of the soft switch list is started.

⑥ Inhibition of data change

(This is also applicable for the optional setting.)

In the following case, it is inhibited to change the data with the key error buzzer.

- Switching ON/OFF of ECM during the use of image memory.
- OFF to ON of telephone billing function which is using the image memory is used (Note: In the existing set, the telephone billing code function is specified from OFF to ON when the timer system communication (including the batch communication) is set.)
  Here, the memory is usable when the telephone billing code function is on. It can be set from ON to OFF while the memory is used. However, if setting is practically changed even once, it can not be returned from OFF to ON.
- OFF to ON of department control function during use of image memory.
  (Note: In the existing set, the department control function is set from OFF to ON when the timer communication (including the batch sending) or the memory hold is set.)
- ON to OFF of continuous serial polling function when the continuous serial polling is started.
  (Note: In the existing set, "ON to OFF of the continuous serial polling function when the continuous serial polling is registered" has been applied, but the conditions are now moderated. However, registration is impossible to the program of the new continuous serial polling when the continuous serial polling function is OFF.)
- In addition, change of all soft switches during communication

B) Print area

According to the size of the specified sheet, the effective printing area is printed.

C) ROM & RAM check

This is an item to check if the loaded memory device acts normally.

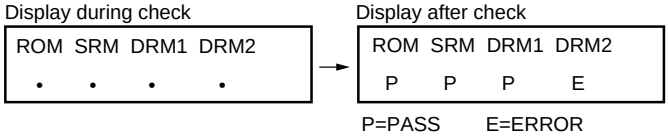
- The memory devices shown in the following table are checked.
- In case that an error occurs in the device check, the alarm buzzer shown in the table sounds.

Check device and alarm buzzer

No.	Device checked		Number of buzzer sound	Remarks
1	Main	ROM (PROGRAM FLASH)	<Short sound> 1 time	<Short sound>:
2		SRAM	<Short sounds> 2 times	0.5 sec.ON / 0.5 sec.OFF
3		D-RAM1 (*1)	<Short sounds> 3 times	<Long sounds>:
4		D-RAM2 (*2)	<Short sounds> 4 times	1.0 sec.ON / 0.5 sec.OFF
5		—	—	

*1: Work memory (SDRAM 8 MB)
*2: Page memory (SDRAM 16 MB)

(Example of display) In case that DRAM2 is erroneous.



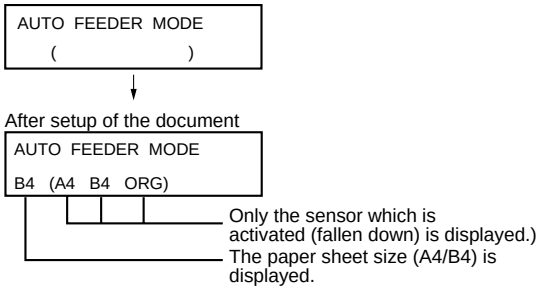
- After the check is complete, the result is outputted.
- In case that an NIC and a PCL board are mounted, the version information of the board is also printed on the result.

D) Auto feeder mode

By executing the document insertion and discharge, the automatic feeding function can be checked. And the document sensor can be checked as well.

① Set the document

Before pressing the “START” key, only the document sensor check is carried out. And as the document sensor is ON, the document size (A4/B4) and the sensor information (A4/B4/ORG) are displayed.


AUTO FEEDER MODE
( )
After setup of the document
AUTO FEEDER MODE
B4 (A4 B4 ORG)
Only the sensor which is activated (fallen down) is displayed.)
The paper sheet size (A4/B4) is displayed.

② The automatic feeding starts by pressing the “START” key. This mode ends when the document ends, and the result is printed.

E) Aging mode

This is a mode to execute the copying action and the check pattern printing action once every 60 minutes and continue the action until 10 sheets are outputted in total.

① The printing action on the 1st sheet starts by pressing down the "START" key and entering the mode. When document is set at the time of the mode start-up the copy action is carried out, and when the document is not set the "check pattern 1" of the print dialog is printed.
② The number of printouts is displayed after printing.

F) Panel check mode

This is to check that each key acts normally and this is displayed on the LCD according to the key input. And during execution, the document reading lamp is ON. After inspection start, the LEDs light on sequentially. At the mode end with the "STOP" key, all of them go OFF. As to the test result, it is printed out after the mode end.

When the "NUMERIC" key is pressed during the panel check execution, sending of the DTMF signal corresponding to the key starts, and when another key is pressed sending of the DTMF signal stops. (Softswitch change is required. SW80 No.6: 0 →1)

- After inputting all the keys, input the "STOP" key at last, and then the result is displayed.

a) In case that all the keys are pressed.

```
PANEL CHECK MODE
ALL KEY OK !!
```

- Until the STOP key is pressed, all black 4-split sequential display is performed.
- After the mode end, the test result is printed.

b) In case that there is a key that is not pressed.

```
PANEL CHECK MODE
KEY ERROR !!
```

- Until the STOP key is pressed, all black 4-split sequential display is performed.
- After the mode end, the test result is printed.

G) Optical adjust mode

The optical system is adjusted.

- By pressing down the "START" key, the document reading lamp "100%: ON" is turned ON.

H) Product check

This is a dialog used in the production process and a mode to execute a specific mode in the series of the flow.
After the mode end, the rest result as to the checked items is printed.

- After moving to the mode, the following actions are sequentially executed.

① Memory clear (Same as Diagnosis K)

② Panel check (Same as Diagnosis F)

③ ROM & RAM test check (Same as the Diagnosis C)

④ Test result print
Memory clear printing
Panel check result printing
ROM & RAM test result printing

⑤ Print area (The specification of each item is the same as the specifi cation of the simple mode.)

I) Signal send mode

It can be used to check the modem.
When the START key is pressed, silence signal (make loop) will be executed. The following signals are sent by pressing the START key thereafter.

[1] No signals (make loop)
[2] 4800BPS (V. 27ter)
[3] 14400BPS (V. 33)
[4] 12000BPS (V. 33)
[5] 14400BPS (V. 17)
[6] 12000BPS (V. 17)
[7] 9600BPS (V. 17)
[8] 7200BPS (V. 17)
[9] 9600BPS (V. 29)
[10] 7200BPS (V. 29)
[11] 4800BPS (V. 29ter)
[12] 2400BPS (V. 29ter)
[13] 300BPS (FLAG)
[14] 2100Hz (CED)
[15] 1100Hz (CNG)

J) Comm. check mode

① Turn on the Line Monitor. (SW7 No.7, SW29 No.7)
② Turn off the Cover Sheet Function. (SW2 No.6, SW24 No.6)
③ Set Line Equivalence at 0 km. (SW8 No.1/No.2, SW30 No.1/No.2)
④ Set the copy cut off mode (SW75 No.2) to "Continue"
⑤ Set the ringer volume (SW62 No.5/No. 6) to OFF.
After the check, it is necessary to be sure to return the aforementioned soft switches into the initial state.
(Clear the memory with the diagnosis.)

K) Memory clear mode

Clear the back-up memory to initialize the soft switches.
The Flash Memory will be initialized. Then, the initialized list be output.
① Memory clear is executed.
② The result that says initialized is printed.

NOTE: The life counter, and the adjustment values of the top void and the large LCD contrast are not cleared.

L) Flash Memory check

This is a mode to check that the flash memory acts normally. The flash memories shown in the following table are checked.

No.	Flash memory		Number of buzzer sound	Remarks
1		NOR-Flash (Standard)	<Long sound> 1 time	<Short sound>:
2		NAND-Flash (Standard)	<Long sounds> 2 times	0.5 sec.ON / 0.5 sec.OFF
3		NAND-Flash (Option)	<Long sounds> 3 times	<Long sounds>:
4		—	—	1.0 sec.ON / 0.5 sec.OFF
5		—	—	

- NAND-Flash (optional) is valid only when the optional memory is mounted.

① The NOR flash memory test is executed.

```
NOR FLASH CHECK
S ■■■— — — — — — — E
```

② The concerned alarm buzzer sounds only when the error occurs.
③ The NAND flash memory test is executed.

```
NAND FLASH CHECK
S ■■■— — — — — — — E
```

④ The concerned alarm buzzer sounds only when the error occurs.
⑤ The result is printed.

NOTE:
• During operation of this diagnosis, dual operation is not possible at all.
• If this is excessively repeated, it will shorten the life of the flash memory.

M) All FAX/TEL. entry mode

This is a function to copy the FAX and TEL numbers registered in the one-touch dialing (RAPID) key [01] to the all one-touch dialing (RAPID) key and the all abbreviated number (SPEED DIAL) to simplify the FAX and TEL number registration at the time of aging. (Only the E-MAIL can be used for the network models.)

① Copy the FAX/TEL number or the E-MAIL stored in the RAPID key [01] to all RAPID keys.

② Copy the FAX/TEL number or the E-MAIL stored in the RAPID key [01] to all SPEED DIAL numbers.

③ If the chain dial is not set for the RAPID key, or RAPID key [01] stores the E-MAIL, the RAPID keys [02] – [59] and all SPEED DIAL numbers are stored in the group number [01].

④ Enter all registered one-touch send (RAPID) keys and speed dial numbers (SPEED DIAL) on the personal books [01] - [10].
Following this, set the password registration and the password setting to ON, and set the TTI setting to OFF.

The call-receiver names and book names are specified as follows:

Rapid	R XX	XX	: Rapid key send
SPEED DIAL	S XXX	XXX	: Speed dial number
Personal book	BOOK XX	XX	: Book number

(The letters after 16th letter of the call-receiver's name registered in the one-touch dialing [01] are cut off.)

NOTE: Before entering this mode, a FAX/TEL number or an E-MAIL must be stored in the RAPID key [01]. (This program will not be executed if there is no data stored, or otherwise a program or a group is registered.)

N) Dept. passcode

The department passcode list is printed.

O) Conf. passcode

The confidential passcode list is printed.
Differing from printing of one box alone soon after registration, the confidential passcodes of all boxes are printed.

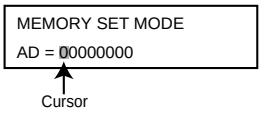
P) Signal send mode 2

The signals concerned with V.34 & V.8 are checked. It can be used to check the modem.
When the START key is pressed, silence signal (make loop) will be executed. The following signals are sent by pressing the START key thereafter.

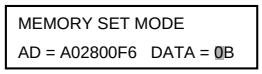
[1] No signal (make loop)
[2] 33600BPS (V. 34)
[3] 31200BPS (V. 34)
[4] 28800BPS (V. 34)
[5] 26400BPS (V. 34)
[6] 24000BPS (V. 34)
[7] 21600BPS (V. 34)
[8] 19200BPS (V. 34)
[9] 16800BPS (V. 34)
[10] 14400BPS (V. 34)
[11] 12000BPS (V. 34)
[12] 9600BPS (V. 34)
[13] 7200BPS (V. 34)
[14] 4800BPS (V. 34)
[15] 2400BPS (V. 34)
[16] 0 - 300BPS (V. 34)
[17] ANSam

Q) Memory set mode

The set and dump list of the memory content is output.



- The address (8 digits (P) generally including the bank information is input, and the data of 2 digits is continuously input.
  Inputting is done in the hexadecimal mode. The ten-key is used for 0 through 9, and the alphabetic keys A (RAPID 01 through 06) are used for A through F.



- During data inputting, the address can be moved forward and backward one byte by one byte with "><" and "#". (The address prior to the address 0 is looked as the maximum address.)
- The Validity of the address is not checked. Accordingly, writing/ reading operations are possible in the address of the memory not assigned, the address of ROM and so on.
  (However, as practical, writing is not done, and the data content runs short each reading.)
  Though writing is possible in the flash memory, a little time is required.
  It is also necessary to take care that the life of the flash memory is excessively shortened if much data is written in the flash memory. Since it may run away depending the written content, take minute care for the writing address.
- When the REPORT key is input, the memory dump list is produced from the displayed address (here, it is limited at the 16-byte boundary address (address with end 0) which does not exceed the specified address and is just in front.). The dump list is output to a maximum of 99 pages. If any data of one page can be repeatedly developed and printed, the list is sufficient. But it is not desired that the content of plural pages are developed in the memory once and are then printed. If the STOP key is pressed, it will pass to the diagnosis after the page which is now being printed is completed printed.
  If the address exceeds the maximum address, it will return to the address 0 and printing will be continued.

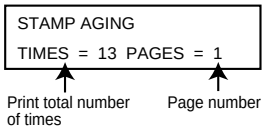
R) Stamp aging mode

This is a mode to execute the continuous drive aging of the Verification stamp.

① Set the document and press down the "START" key and the continuous drive of the Verification stamp starts.

② Send the document at the interval of 10 mm and stamp the Verification stamp continuously. The total number of times of Verification stamp printing after entering this mode is displayed on the display.

- Displayed screen during execution



③ By pressing down the "STOP" key during the action, or when no more document is left, the continuous drive of the Verification stamp stops.

NOTE:

- In case that the document is not set, this cannot be executed.
- The normal action aging that one Verification stamp is pressed on one sheet of document is executed in the normal copying.

S) Dial test mode

The mode is used to inspect whether dialing is accurate in two kinds of dial modes . All data which can be dialed in this mode are automatically called up in both PB mode and DP mode.

[In case that 2 line optional is not mounted.]

① Turn on CML, and dial the following in the PB mode.
1, 2, 3, 4, 5, 6, 7, 8, 9, ✳, 0, #

② Dial the following in the DP mode.
1, 5, 9, 0

③ After dialing, turn off CML.

NOTE:
This mode uses the ordinary auto dial. (Accordingly, the signal sending time and minimum pause are all the same as ordinary.
The measurement result in this mode is completely all the same as in the ordinary dial mode.)

T) Copy diag mode

This mode is for automatic mode selection of copy to reduce the time for treatment at the time of production.

① Set 2 sheets of document. (No problem if there are 2 sheets or more.)

② 3 sheet continuous copy: 1st sheet in the FINE AUTO
2nd sheet and after that are copied in the H-TONE DARK.

NOTE:
Input of the image quality and the darkness keys is invalid in this mode.

U) LCD check mode

This is an item to check that the LCD acts normally.

① The screen for selecting the contrast adjustment mode and the “H” display mode appears.

```
U:LCD CHECK MODE
1=CONT.ADJ 2=TEST DISP
```

② Select the mode using the “←” or “→” keys or otherwise dial keys “1” or “2”.

[When the contrast adjustment mode is selected]

③ Adjust with the “←” or “→” keys so that both right and left halves of the “A” can be recognized.

```
CONTRAST=-9   TEMP=+25

A
```

[When the “H” display mode is selected]

③ Turn on the backlight so that the whole screen shows “H”. (26 letters x 9 lines)

```
HHHHHHHHHHHHHHHHHHHHHHHHHH
HHHHHHHHHHHHHHHHHHHHHHHHHH
HHHHHHHHHHHHHHHHHHHHHHHHHH
HHHHHHHHHHHHHHHHHHHHHHHHHH
HHHHHHHHHHHHHHHHHHHHHHHHHH
HHHHHHHHHHHHHHHHHHHHHHHHHH
HHHHHHHHHHHHHHHHHHHHHHHHHH
HHHHHHHHHHHHHHHHHHHHHHHHHH
HHHHHHHHHHHHHHHHHHHHHHHHHH
```

V) Personal book list

The PASSCODE of the personal book 00 to 10 are output.

W) Font list print mode [Only when network function is mounted]

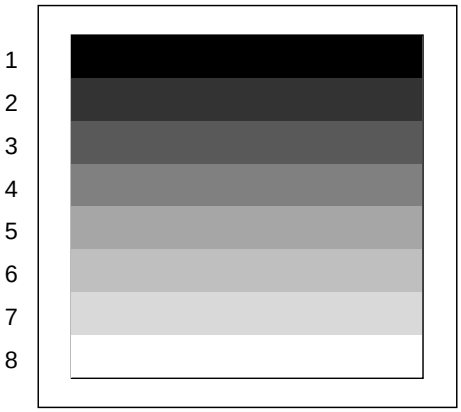
The font list that can be used in the network function is printed.

X) No function

2-2. Print diagnosis

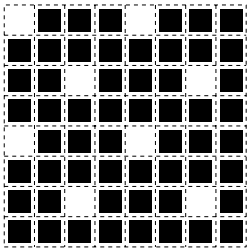
Rapid key 01: Area print mode 1

The effective printing area frame is printed in the specified sheet size.



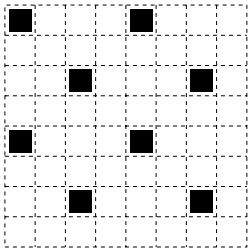
The data pattern used here are as follows and 1 data 30 mm is printed.

1. [Full black pattern]
2. [Intermediate tone 2 pattern]



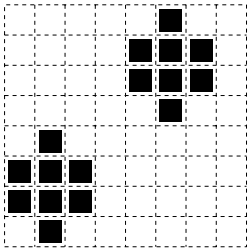
The left pattern is repeated.

3. [Intermediate tone 1 pattern]



The left pattern is repeated.

4. [Mesh point pattern]



The left pattern is repeated.

5. [Longitudinal strip 2 pattern]
   Black 2 dot and white 2 dot are repeated in line.
6. [Lateral strip 2 pattern]
   Black 2 line and white 2 line are repeated.
7. [Longitudinal strip 1 pattern]
   Black 1 dot and white 1 dot are repeated in line.
8. [Full White pattern]

Rapid key 02: Check pattern 1
The lateral stripe 2 pattern is printed on one sheet.
(Black 2 line and white 2 line are repeated.)

Rapid key 03: Check pattern 2
The lateral stripe 2 pattern is printed on multiple pages.
Press the STOP key to end the printing.

Rapid key 04: Check pattern 3
The intermediate tone 1 is printed on one sheet.

Rapid key 05: Check pattern 4
In this mode, 1 sheet is printed as to the square frame pattern for the skew measurement.

Rapid key 06: Paper feed aging 1
The mode is used for aging related to the printing. In this mode, the following modes are provided.

① Blank paper aging mode (ALL WHITE AGING)
② Whole black print aging mode (ALL BLACK AGING)
③ 5% printing aging mode (5% AGING)
④ 4% printing aging mode (4% AGING)
⑤ Outer frame check pattern
⑥ 4% check pattern

After selecting the paper-pass aging mode in the print diagnosis mode, input the number of each mode above with the ten-key, and the mode will be executed. The detailed specifications of each mode are described as follows. Here, the operation in each mode is stopped only when the STOP key is pressed by the operator or a printing-impossible error occurs.

- Blank paper aging mode
  In the mode, printing is continued in the whole white (white paper) printing pattern until the STOP key is pressed by the operator. (In the printing area)
- Whole black printing aging mode
  In the mode, printing is continued in the whole black (whole black) printing pattern until the STOP key is pressed by the operator. (In the printing area)
- 5% aging mode
  In this mode, the 5% print pattern is repeatedly printed until the [STOP] key is pressed by the operator.
- Outer frame pattern aging mode
  In this mode, the outer frame check pattern is repeatedly printed until the [STOP] key is pressed by the operator. For the outer frame, only the frame showing the printing area is printed.
- 4% chart aging mode
  In this mode, the 4% chart is repeatedly printed until the [STOP] key is pressed by the operator.

Rapid key 07: Paper feed aging 2
This is a mode that is used for aging related to printing, and there are following modes. And also as to the print interval 5 sec. – 12 hour can be set.

1. Print pattern
① Blank paper　② All black
③ 5% print pattern　④ 4% print pattern
⑤ Outer frame check pattern　⑥ 4% chart pattern

2. Print interval (Time between finishing and starting the printing.)
   Settable range: 1 – 300 seconds
3. Number of print repetitions (Number of repetitions.)
   Settable range: 125 – 1250 times
4. Number of printouts (Number of serial printings at a time.)
   Settable range: 1 – 10 sheets

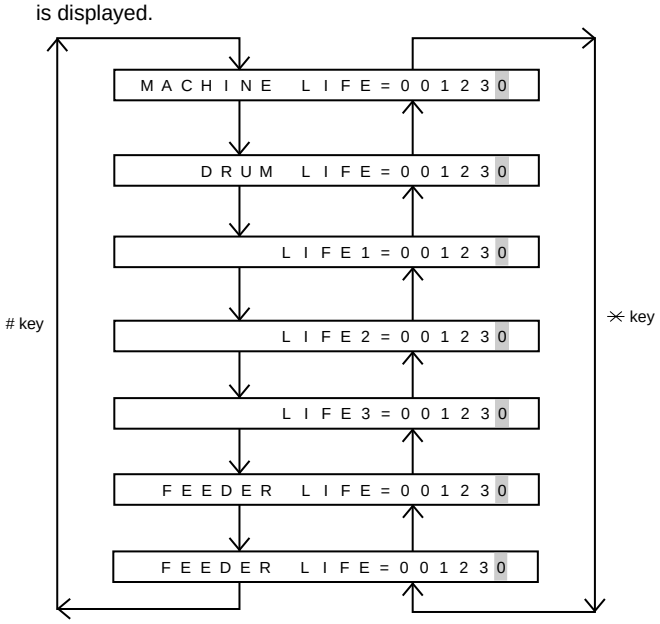
To execute, enter the above items with the ten keys after selecting the mode. Refer to “Paper feed aging 1” for the details of print patterns.
In any of the mode, the operation will be interrupted only when the “STOP” key is pressed by the operator, or an error which makes printing impossible occurs.

Rapid key 08: Bias adjust mode
The mode is used to adjust the printing density of the printed image. The image printing density is adjustable in seven steps of 1 to 7.
For details, refer to the following table. (For selection, use the keys 1 through 7.)

Image printing density	Thin ←					→ Thick	
	1	2	3	4	5	6	7
Default value				◎			

Rapid key 09: Life set mode
The mode is used to set the life counter of the printer and the counter of the auto feeder at desired values. For setting, proceed with the following procedure.

① When the life counter setting mode is selected, the following will be is displayed.



The cursor blinks at the top data.
Five counters can be selected with the "#" and "⋊" keys.

② In the state ①, input a desired setting number of 6 digits with the ten-key.

③ After input of 6 digits, shift to another counter with the "#" and "⋊" keys as necessary. When all necessary counters are completely input, press the START key.

④ "STORED" will be displayed with the set values stored into the memory. For checking, retry this mode.

NOTE: The counter shows the operational state of the printer (how many sheets have been printed since start of use?). The ordinary memory does not reset the counter. Accordingly, it is necessary to reset this counter in addition to the ordinary memory clear if the content in the memory on the control PWB is broken because of PWB repair, etc. (In the production stage, it is necessary to execute this in the last process.)

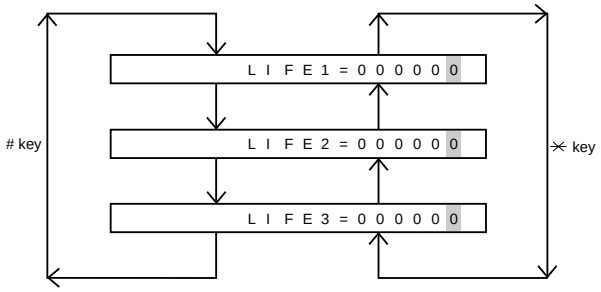
Rapid key 10: Life all clear
The mode is used to clear the life counter of the printer of the counter of the auto feeder.

NOTE: The counter shows the operational state of the printer (how many sheets have been printed since start of use?). The ordinary memory does not reset the counter. Accordingly, it is necessary to reset this counter in addition to the ordinary memory clear if the content in the memory on the control PWB is broken because of PWB repair, etc. (In the production stage, it is necessary to execute this in the last process.)

Rapid key 11: Life entry mode (For Serviceman temporary counter)

The mode is used to set a desired value for the judgment value (alarm judgment counter value) of the general purpose life counters 1 through 3 of the printer. If the life of a consumable part (developer, imprinter, etc) is set, the model which has the error display and RMS function will inform RMS when the counter reaches the set value. For setting, proceed with the following procedure.

① When the life counter setting mode is selected, the following will be displayed.



The cursor blinks at the top data.
Three counters can be selected with the "#" and "*" keys.

② In the state ① , input a desired setting number of 6 digits with the ten-key.

③ After input of 6 digits, shift to another counter with the "#" and "*" keys as necessary. When all necessary counters are completely input, press the START key.

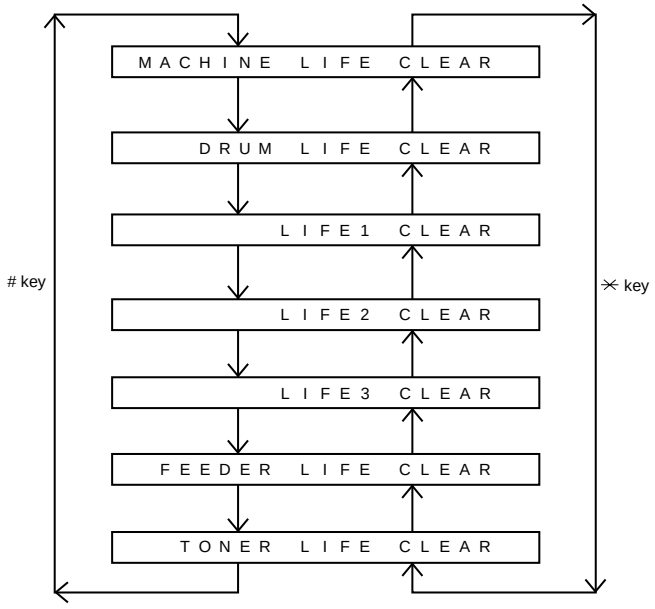
④ "STORED" will be displayed with the set values stored into the memory. For checking, retry this mode.

NOTE: The counter shows the operational state of the printer (how many sheets have been printed since start of use?). The ordinary memory does not reset the counter. Accordingly, it is necessary to reset this counter in addition to the ordinary memory clear if the content in the memory on the control PWB is broken because of PWB repair, etc. (In the production stage, it is necessary to execute this in the last process.)

Rapid key 12: Life clear mode

The mode is used to respectively clear the life counter of the printer and the counter of the auto feeder. For setting, proceed with the following procedure.

① When the life counter clearing mode is selected, the following will be is displayed.



Seven counters can be selected with the "#" and "*" keys.

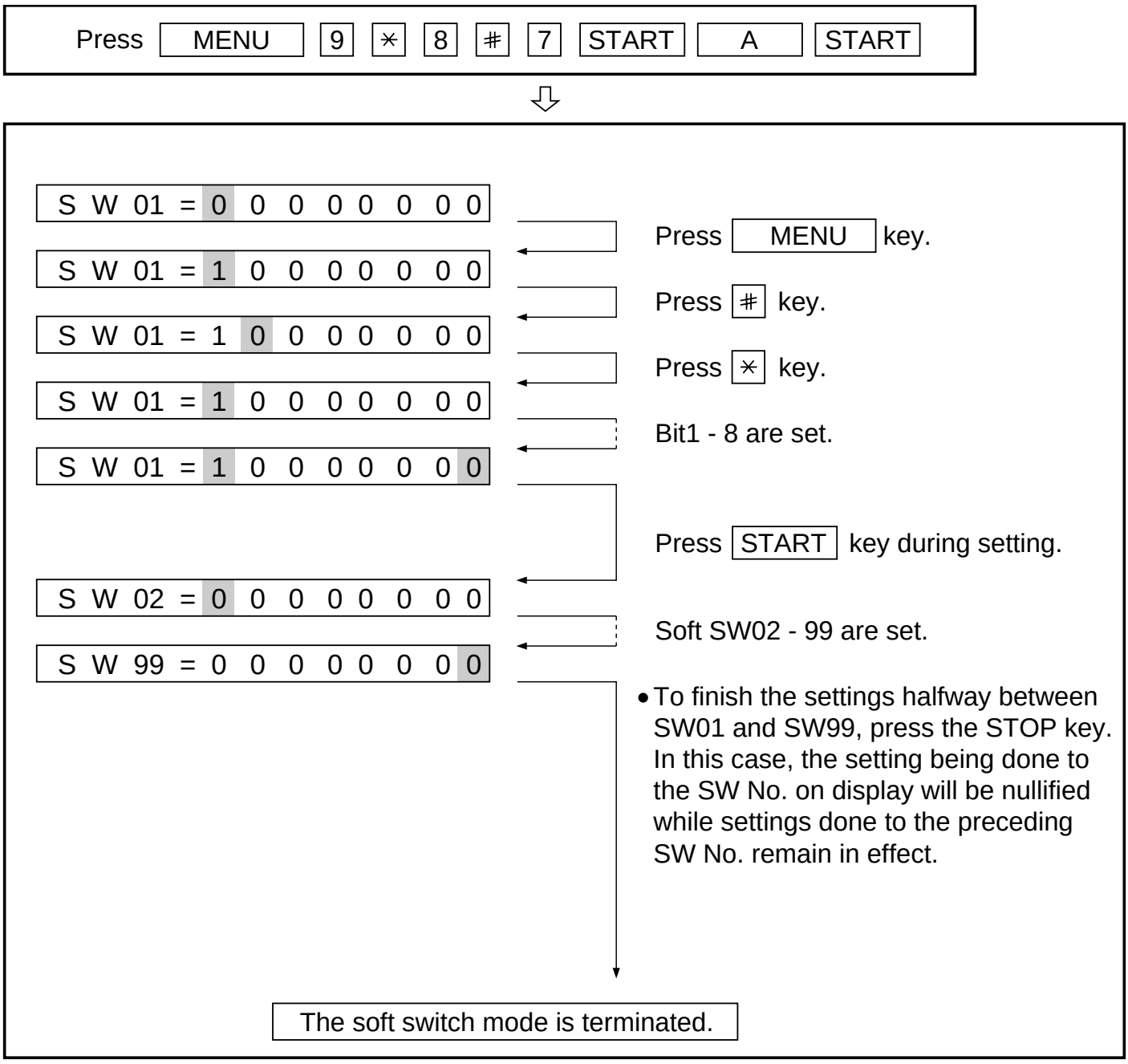
② In the state ①, input the DEL key, and the counter will be respectively cleared.

③ "CLEARED" is displayed and clearing is complete. After ending one clear, move to another counter to clear with the "#" key, "*" key, if necessary. After clearing the necessary counter press down the "STOP" key.

NOTE: The counter shows the operational state of the printer (how many sheets have been printed since start of use?). The ordinary memory does not reset the counter. Accordingly, it is necessary to reset this counter in addition to the ordinary memory clear if the content in the memory on the control PWB is broken because of PWB repair, etc. (In the production stage, it is necessary to execute this in the last process.)

3. How to make soft switch setting

To enter the soft switch mode, make the following key entries in sequence.


Press MENU 9 * 8 # 7 START A START
S W 01 = 0 0 0 0 0 0 0 0
S W 01 = 1 0 0 0 0 0 0 0
S W 01 = 1 0 0 0 0 0 0 0
S W 01 = 1 0 0 0 0 0 0 0
S W 01 = 1 0 0 0 0 0 0 0
S W 02 = 0 0 0 0 0 0 0 0
S W 99 = 0 0 0 0 0 0 0 0
Press MENU key.
Press # key.
Press * key.
Bit1 - 8 are set.
Press START key during setting.
Soft SW02 - 99 are set.
• To finish the settings halfway between SW01 and SW99, press the STOP key. In this case, the setting being done to the SW No. on display will be nullified while settings done to the preceding SW No. remain in effect.
The soft switch mode is terminated.

• SW1 to SW22 : For Line-1
• SW23 to SW44 : For Line-2

4. Soft switch description

• Soft switch

SW NO.	DATA NO.	ITEM	Switch setting and function						Initial setting	Remarks
			1					0		
SW1	1	Recall interval	Binary input 8 4 2 1						0	OPTION
	2		No. = 1 2 3 4 (Data No.)						1	Set to 1~15
	3		EX 0 1 0 1						0	
	4		eg. Recall interval is set to 5 min.						1	
	5	Recall times	Binary input 8 4 2 1						0	OPTION
	6		No. = 5 6 7 8 (Data No.)						0	Set to 0~14
	7		EX 0 0 1 0						1	
	8		eg. Recall times is set to 2 times.						0	
SW2	1	Dial mode	PULSE					TONE	0	
	2	Receive mode	AUTO					MANUAL	1	
	3	ECM mode	Off					On	0	OPTION
	4	Reserved							0	
	5	Polling security	On					Off	1	OPTION
	6	Auto cover sheet	No					Yes	1	OPTION
	7	JUNK-FAX function in manual reception	Yes					No	0	
	8	JUNK-FAX function	Yes					No	0	OPTION
SW3	1	Number of rings for auto-receive	Binary input 8 4 2 1						0	OPTION
	2	(0: No ring receive)	No. = 1 2 3 4 (Data No.)						0	Set to 0~9
	3		EX 0 0 0 1						0	
	4		eg. Number of rings for auto receive is set to 1 time.						1	
	5	Switch to auto-receive from manual receive	Binary input 8 4 2 1						0	OPTION
	6	(0: No switch)	No. = 5 6 7 8 (Data No.)						0	Set to 0~9
	7		EX 0 0 0 0						0	
	8		eg. Switch to auto receive is set to disable.						0	
SW4		Communication results printout		Printed at error only	Printed at error/timer/ memory only	Printed at transmis-sion mode only	Not printed	Printed every time		OPTION
	1		No. 1	0	0	0	1	1	0	
	2		No. 2	0	0	1	0	1	0	
	3		No. 3	1	0	0	0	0	1	
	4	Image addition function to the communication result table (for memory transmission only)	On					Off	1	OPTION
	5	Reserved							0	
	6	TEL billing code function	On					Off	0	OPTION
	7	Billing code position	Before					After	1	OPTION
	8	Multi-TTI feature	On					Off	0	OPTION
SW5	1	Time display format	24 hours					12 hours-AM/PM	0	
	2	Date display format	Month-Day-Year					Day-Month-Year	1	
	3	Header print	Off					On	0	
	4	Footer print	On					Off	0	
	5	Reserved							0	
	6	Substitute reception	Off					On	0	
	7	Substitute reception conditions	Reception disable without TSI					Reception enable without TSI	0	
	8	CSI transmission	Off					On	0	

SW NO.	DATA NO.	ITEM	Switch setting and function										Initial setting	Remarks
			1											
	1	JBIG (Joint Bi-level Image Group)	On										1	
	2	JBIG (Joint Bi-level Image Group) option	On										0	
	3	MMR	On										1	
	4	MR	On										1	
SW6		Modem speed		V.33		V.17				V. 29		V. 27ter		
				14400	12000	14400	12000	9600	7200	9600	7200	4800	2400	
	5		No. 5	0	0	1	1	1	1	0	0	0	0	1	
	6		No. 6	1	1	0	0	0	0	0	0	0	0	0	
	7		No. 7	0	1	0	1	0	1	0	1	1	0	0	
	8		No. 8	0	0	0	0	1	1	1	1	0	0	0	
		Reception speed fixed			NO		V. 17-14400bps		V. 29-9600bps		V. 27ter-4800bps			When 14400bps MODEM used, setting to 14400bps is ignored.
	1		No. 1		0		1		0		1		0	
	2		No. 2		0		1		1		0		0	
	3	DIS receive acknowledge during G3 transmission	Twice				Once in NSF reception, twice in DIS reception						0	Effective to international comm.
SW7	4	Non-modulated carrier in V.29 transmission mode	On				Off						0	
	5	CNG send when manual TX	On				Off						1	
	6	Protocol monitor	On				Off						0	
	7	Line monitor	On				Off						0	
	8	Reserved											0	
		Compromised equalizer	RECEPTION		0Km		1.8Km		3.6Km		7.2Km			Valid when transmitting
	1		No. 1		0		0		1		1		0	
	2		No. 2		0		1		0		1		0	
	3	H2 mode	No				Yes						0	
		Signal transmission level	Binary input 16 8 4 2 1										For U.S.A.	For Canada	
			No. = 4 5 6 7 8 (Data No.)												
SW8	4		EX 0 1 1 0 1 (For U.S.A.)										0	0	
	5		EX 0 1 0 0 0 (For Canada)										1	1	
	6		eg. Signal transmission level is set to -10dBm										1	0	
	7												0	0	
	8												1	0	
		CED tone signal interval			75ms		500ms		750ms		1000ms			
	1		No. 1		0		0		1		1		0	
	2		No. 2		0		1		0		1		0	
	3	Equalizer freeze	On				Off						0	
SW9	4	Equalizer freeze conditions	All				7200bps						0	
	5	CED detection time	500ms				1000ms						0	
		Alarm buzzer			3sec		1sec		No BEEP		No BEEP			
	6		No. 5		0		0		1		1		0	
	7		No. 6		0		1		0		1		0	
	8	Action when RTN received	Handle to error				Handle to no error						0	

SW NO.	DATA NO.	ITEM	Switch setting and function						Initial setting		Remarks
			1					0			
SW10	1	Memory retransmission times	Binary input 8 4 2 1						1		OPTION
	2		No. = 1 2 3 4 (Data No.)						0		
	3		EX 1 0 1 0						1		
	4		eg. Retransmission time set to 10 times.						0		
	5	Memory retransmission interval	Binary input 8 4 2 1						0		OPTION
	6		No. = 5 6 7 8 (Data No.)						0		
	7		EX 0 0 1 0						1		
	8								0		
SW11	1	V.34 mode transmission speed	Sending speed = 2400 (bps) x (N+1)						1		
	2		Example :						1		
	3		2400 (bps) x 12 = 28800 (bps)						1		
	4		2400 (bps) is set for N=0. 33600 (bps) is set for N=14.						0		
	5	V.34 mode receiving speed	Receiving speed = 2400 (bps) x (N+1)						1		
	6		Example :						1		
	7		2400 (bps) x 12 = 28800 (bps)						1		
	8		2400 (bps) is set for N=0. 33600 (bps) is set for N=14.						0		
SW12	1	V.34 mode function in case of manual communication	On			Off			1		
	2	V.34 mode function	On			Off			1		
	3	V.34 control channel communication speed	2400bps			1200bps			0		
		EOL detection timer		13sec		25sec	5sec	5sec			
	4		No. 4	0		0	1	1	0		
	5		No. 5	0		1	0	1	0		
		Processing of DIS reception after DIS transmission		Command retransmitting		A line is cut	Apply to T.30	T.30+α			
	6		No. 6	0		0	1	1	0		
	7		No. 7	0		1	0	1	0		
	8	The change to DB from DP by ✕	Yes			No			0		
SW13		DTMF output level (High)	Binary input 16 8 4 2 1						For U.S.A.	For Canada	
			No. = 1 2 3 4 5 (Data No.) n x 0.5dBm								
	1		EX 0 1 1 0 0 (For U.S.A.)						0	0	
	2		EX 0 1 0 0 0 (For Canada)						1	1	
	3		eg. Signal transmission level is set to -10dBm						1	0	
	4								0	0	
	5								0	0	
	6	Reserved							0		
	7	Reserved							0		
	8	Reserved							0		
SW14		DTMF output level (Low)	Binary input 16 8 4 2 1						For U.S.A.	For Canada	
			No. = 1 2 3 4 5 (Data No.) n x 0.5dBm								
	1		EX 1 0 0 0 0 (For U.S.A.)						1	0	
	2		EX 0 1 1 0 0 (For Canada)						0	1	
	3		eg. Signal transmission level is set to -10dBm						0	1	
	4								0	0	
	5								0	0	
	6	Reserved							0		
	7	Reserved							0		
	8	Reserved							0		

SW NO.	DATA NO.	ITEM	Switch setting and function								Initial setting	Remarks
			1				0					
SW15	1	Reserved									0	
	2	Reserved									0	
	3	Reserved									0	
	4	Reserved									0	
		CI Signal OFF detect enable time	(ms)	200	300	350	400	500	700	1200		
	5		No. 5	0	0	0	0	0	0	0	0	
	6		No. 6	0	0	0	0	1	1	1	1	
	7		No. 7	0	0	1	1	0	0	1	0	
	8		No. 8	0	1	0	1	0	1	0	1	
SW16	1	Reserved									0	
	2	Reserved									0	
	3	Reserved									0	
	4	Reserved									0	
		Distinctive ringing		OFF	STD	RING1	RING2	RING3	RING4	RING5		
	5		No. 5	0	0	1	0	1	0	1	0	
	6		No. 6	0	0	0	1	1	0	0	0	
	7		No. 7	0	0	0	0	0	1	1	0	
	8		No. 8	0	1	0	0	0	0	0	0	
SW17	1	Reserved									0	
	2	Reserved									0	
	3	Reserved									0	
	4	Reserved									0	
	5	Reserved									0	
	6	Reserved									0	
	7	Reserved									0	
	8	Reserved									1	
SW18	1	Reserved									1	
	2	Reserved									0	
	3	Reserved									0	
	4	Reserved									0	
	5	Reserved									1	
	6	Reserved									1	
	7	Reserved									0	
	8	Reserved									0	
SW19	1	Reserved									1	
	2	Reserved									0	
	3	Reserved									0	
	4	Reserved									0	
	5	Reserved									1	
	6	Reserved									0	
	7	Reserved									0	
	8	Reserved									0	
SW20	1	Reserved									0	
	2	Reserved									0	
	3	Reserved									0	
	4	Reserved									0	
	5	Reserved									0	
	6	Reserved									0	
	7	Reserved									0	
	8	Reserved									0	

SW NO.	DATA NO.	ITEM	Switch setting and function						Initial setting	Remarks
			1			0				
	1	Reserved							0	
	2	Reserved							0	
	3	Reserved							0	
		Busy tone detection frequency		520~640Hz	300~600Hz	380~500Hz	Reserve	Reserve		
SW21	4		No. 4	0	0	0	0	1	0	
	5		No. 5	0	0	1	1	0	0	
	6		No. 6	0	1	0	1	0	0	
	7	Reserved							0	
	8	Reserved							0	
		Service condition for line-1	Line-1	TX/RX (AUTO)	TX/RX (MANU)	RX only (AUTO)	RX only (MANU)	Other Setting		
	1		No. 1	0	0	0	0	Default	0	
	2		No. 2	0	0	1	1	Setting	0	
SW22	3		No. 3	0	1	0	1		0	
	4	Reserved							0	
	5	Reserved							1	
	6	Reserved							0	
	7	Reserved							0	
	8	Reserved							0	
	1	Reserved							0	
	2	Reserved							1	
	3	Reserved							0	
	4	Reserved							1	
SW23	5	Reserved							0	
	6	Reserved							0	
	7	Reserved							1	
	8	Reserved							0	
	1	Dial mode	PULSE			TONE			0	
	2	Receive mode for line-2	AUTO			MANUAL			1	
	3	Reserved							0	
	4	Reserved							0	
SW24	5	Reserved							1	
	6	Reserved							1	
	7	Reserved							0	
	8	Reserved							0	
	1	Number of rings for auto-receive	Binary input	8	4	2	1		0	OPTION
	2	(0: No ring receive)	No. =	1	2	3	4	(Data No.)	0	Set to 0~9
	3		EX	0	0	0	1		0	
	4		eg. Number of rings for auto receive is set to 1 time.						1	
SW25	5	Reserved							0	
	6	Reserved							0	
	7	Reserved							0	
	8	Reserved							0	
	1	Reserved							0	
	2	Reserved							0	
	3	Reserved							1	
	4	Reserved							1	
SW26	5	Reserved							0	
	6	Reserved							0	
	7	Reserved							1	
	8	Reserved							0	
	1	Reserved							0	
	2	Reserved							1	
	3	Reserved							0	
	4	Reserved							0	
SW27	5	Reserved							0	
	6	Reserved							0	
	7	Reserved							0	
	8	Reserved							0	

SW NO.	DATA NO.	ITEM	Switch setting and function										Initial setting	Remarks
			1											
	1	JBIG (Joint Bi-level Image Group)	On										1	
	2	JBIG (Joint Bi-level Image Group) option	On										0	
	3	MMR	On										1	
	4	MR	On										1	
SW28		Modem speed		V.33		V.17				V. 29		V. 27ter		
				14400	12000	14400	12000	9600	7200	9600	7200	4800	2400	
	5		No. 5	0	0	1	1	1	1	0	0	0	0	1	
	6		No. 6	1	1	0	0	0	0	0	0	0	0	0	
	7		No. 7	0	1	0	1	0	1	0	1	1	0	0	
	8		No. 8	0	0	0	0	1	1	1	1	0	0	0	
SW29		Reception speed fixed		NO		V. 17-14400bps				V. 29-9600bps		V. 27ter-4800bps			When 14400bps MODEM used, setting to 14400bps is ignored.
	1		No. 1	0		1				0		1		0	
	2		No. 2	0		1				1		0		0	
	3	DIS receive acknowledge during G3 transmission	Twice			Once in NSF reception, twice in DIS reception								0	Effective to international comm.
	4	Non-modulated carrier in V.29 transmission mode	On			Off								0	
	5	CNG send when manual TX	On			Off								1	
	6	Protocol monitor	On			Off								0	
	7	Line monitor	On			Off								0	
	8	Reserved												0	
SW30		Compromised equalizer	RECEPTION	0Km		1.8Km		3.6Km		7.2Km					Valid when transmitting
	1		No. 1	0		0		1		1				0	
	2		No. 2	0		1		0		1				0	
	3	H2 mode	No			Yes								0	
		Signal transmission level	Binary input 16 8 4 2 1										For U.S.A.	For Canada	
			No. = 4 5 6 7 8 (Data No.)												
	4		EX 0 1 1 0 1 (For U.S.A.)										0	0	
	5		EX 0 1 0 0 0 (For Canada)										1	1	
	6		eg. Signal transmission level is set to -10dBm										1	0	
	7												0	0	
	8												1	0	
SW31		CED tone signal interval		75ms		500ms		750ms		1000ms					
	1		No. 1	0		0		1		1				0	
	2		No. 2	0		1		0		1				0	
	3	Equalizer freeze	On			Off								0	
	4	Equalizer freeze conditions	All			7200bps								0	
	5	Reserved												0	
	6	Reserved												0	
	7	Reserved												0	
	8	Reserved												0	
SW32	1	Reserved												1	
	2	Reserved												0	
	3	Reserved												1	
	4	Reserved												0	
	5	Reserved												0	
	6	Reserved												0	
	7	Reserved												1	
	8	Reserved												0	
SW33	1	V.34 mode transmission speed	Sending speed = 2400 (bps) x (N+1)											1	
	2		Example :											1	
	3		2400 (bps) x 12 = 28800 (bps)											1	
	4		2400 (bps) is set for N=0. 33600 (bps) is set for N=14.											0	
	5	V.34 mode receiving speed	Receiving speed = 2400 (bps) x (N+1)											1	
	6		Example :											1	
	7		2400 (bps) x 12 = 28800 (bps)											1	
	8		2400 (bps) is set for N=0. 33600 (bps) is set for N=14.											0	

SW NO.	DATA NO.	ITEM	Switch setting and function		Initial setting	Remarks
			1	0		
SW34	1	Reserved			1	
	2	V.34 mode function	On	Off	1	
	3	V.34 control channel communication speed	2400bps	1200bps	0	
	4	EOL detection timer	No. 4: 0	No. 4: 1	0	
	5		No. 5: 0	No. 5: 1	0	
	6	Processing of DIS reception after DIS transmission	No. 6: 0 (Command retransmitting)	No. 6: 1 (A line is cut)	0	
	7		No. 7: 0 (Apply to T.30)	No. 7: 1 (T.30+α)	0	
	8	Reserved			0	
SW35		DTMF output level (High)	Binary input 16 8 4 2 1 No. = 1 2 3 4 5 (Data No.) n x 0.5dBm EX 0 1 1 0 0 (For U.S.A.) EX 0 1 0 0 0 (For Canada) eg. Signal transmission level is set to -10dBm		For U.S.A. / For Canada	
	1				0 / 0	
	2				1 / 1	
	3				1 / 0	
	4				0 / 0	
	5				0 / 0	
	6	Reserved			0	
	7	Reserved			0	
	8	Reserved			0	
SW36		DTMF output level (Low)	Binary input 16 8 4 2 1 No. = 1 2 3 4 5 (Data No.) n x 0.5dBm EX 1 0 0 0 0 (For U.S.A.) EX 0 1 1 0 0 (For Canada) eg. Signal transmission level is set to -10dBm		For U.S.A. / For Canada	
	1				1 / 0	
	2				0 / 1	
	3				0 / 1	
	4				0 / 0	
	5				0 / 0	
	6	Reserved			0	
	7	Reserved			0	
	8	Reserved			0	
SW37	1	Reserved			0	
	2	Reserved			0	
	3	Reserved			0	
	4	Reserved			0	
	5	Reserved			0	
	6	Reserved			1	
	7	Reserved			0	
	8	Reserved			1	
SW38	1	Reserved			0	
	2	Reserved			0	
	3	Reserved			0	
	4	Reserved			0	
	5	Distinctive ringing	No. 5: OFF 0, STD 0, RING1 1, RING2 0, RING3 1, RING4 0, RING5 1		0	
	6		No. 6: OFF 0, STD 0, RING1 0, RING2 1, RING3 1, RING4 0, RING5 0		0	
	7		No. 7: OFF 0, STD 0, RING1 0, RING2 0, RING3 0, RING4 1, RING5 1		0	
	8		No. 8: OFF 0, STD 1, RING1 0, RING2 0, RING3 0, RING4 0, RING5 0		0	
SW39	1	Reserved			0	
	2	Reserved			0	
	3	Reserved			0	
	4	Reserved			0	
	5	Reserved			0	
	6	Reserved			0	
	7	Reserved			0	
	8	Reserved			1	

SW NO.	DATA NO.	ITEM	Switch setting and function						Initial setting	Remarks
			1			0				
SW40	1	Reserved							1	
	2	Reserved							0	
	3	Reserved							0	
	4	Reserved							0	
	5	Reserved							1	
	6	Reserved							1	
	7	Reserved							0	
	8	Reserved							0	
SW41	1	Reserved							1	
	2	Reserved							0	
	3	Reserved							0	
	4	Reserved							0	
	5	Reserved							1	
	6	Reserved							0	
	7	Reserved							0	
	8	Reserved							0	
SW42		DTMF detection time			75ms	500ms	750ms	1000ms		
	1		No. 1		0	0	1	1	0	
	2		No. 2		0	1	0	1	0	
	3	Reserved							0	
	4	Reserved							0	
	5	Reserved							0	
	6	Reserved							0	
	7	Reserved							0	
	8	Reserved							0	
SW43	1	Reserved							0	
	2	Reserved							0	
	3	Reserved							0	
		Busy tone detection frequency		520~640Hz	300~600Hz	380~500Hz	Reserve	Reserve		
	4		No. 4	0	0	0	0	1	0	
	5		No. 5	0	0	1	1	0	0	
	6		No. 6	0	1	0	1	0	0	
	7	Reserved							0	
	8	Reserved							0	
SW44		Service condition for line-2	Line-2	TX/RX (AUTO)	TX only	RX only (AUTO)	Other Setting			
	1		No. 1	0	0	0	Default Setting		0	
	2		No. 2	0	0	1			0	
	3		No. 3	0	1	0			0	
	4	Reserved							0	
	5	Reserved							0	
	6	Reserved							0	
	7	Reserved							0	
	8	Reserved							0	
SW45	1	Reserved							0	
	2	Reserved							0	
	3	Reserved							0	
	4	Reserved							0	
	5	Reserved							0	
	6	Reserved							0	
	7	Reserved							1	
	8	Reserved							0	

SW NO.	DATA NO.	ITEM	Switch setting and function		Initial setting	Remarks
			1	0		
SW46	1	Reserved			0	
	2	Reserved			0	
	3	Reserved			0	
	4	Reserved			0	
	5	Reserved			0	
	6	Reserved			0	
	7	Reserved			0	
	8	Reserved			0	
SW47	1	Reserved			0	
	2	Reserved			0	
	3	Reserved			0	
	4	Reserved			0	
	5	Reserved			1	
	6	Reserved			0	
	7	Reserved			0	
	8	Reserved			1	
SW48	1	Reserved			1	
	2	Reserved			0	
	3	Reserved			0	
	4	Reserved			1	
	5	Reserved			1	
	6	Reserved			0	
	7	Reserved			0	
	8	Reserved			1	
SW49	1	Reserved			1	
	2	Reserved			0	
	3	Reserved			0	
	4	Reserved			1	
	5	Reserved			1	
	6	Reserved			0	
	7	Reserved			0	
	8	Reserved			1	
SW50	1	Reserved			0	
	2	Reserved			0	
	3	Reserved			0	
	4	Reserved			0	
	5	Reserved			0	
	6	Reserved			0	
	7	Reserved			0	
	8	Reserved			1	
SW51	1	Reserved			0	
	2	Reserved			0	
	3	Reserved			0	
	4	Reserved			0	
	5	Reserved			0	
	6	Reserved			0	
	7	Reserved			0	
	8	Reserved			0	

SW NO.	DATA NO.	ITEM	Switch setting and function		Initial setting	Remarks
			1	0		
SW52	1	Reserved			0	
	2	Reserved			0	
	3	Reserved			0	
	4	Reserved			0	
	5	Reserved			0	
	6	Reserved			0	
	7	Reserved			0	
	8	Reserved			0	
SW53	1	Reserved			0	
	2	Reserved			0	
	3	Reserved			0	
	4	Reserved			0	
	5	Reserved			0	
	6	Reserved			0	
	7	Reserved			0	
	8	Reserved			0	
SW54	1	Reserved			0	
	2	Reserved			0	
	3	Reserved			0	
	4	Reserved			0	
	5	Reserved			0	
	6	Reserved			0	
	7	Reserved			0	
	8	Reserved			0	
SW55	1	Reserved			0	
	2	Reserved			0	
	3	Reserved			0	
	4	Reserved			0	
	5	Reserved			0	
	6	Reserved			0	
	7	Reserved			0	
	8	Reserved			0	
SW56	1	Reserved			0	
	2	Reserved			0	
	3	Reserved			0	
	4	Reserved			0	
	5	Reserved			0	
	6	Reserved			0	
	7	Reserved			0	
	8	Reserved			0	
SW57	1	Reserved			0	
	2	Reserved			0	
	3	Reserved			0	
	4	Reserved			0	
	5	Reserved			0	
	6	Reserved			0	
	7	Reserved			0	
	8	Reserved			0	

SW NO.	DATA NO.	ITEM	Switch setting and function					Initial setting	Remarks
			1		0				
SW58	1	Reserved						0	
	2	Reserved						0	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW59	1	Reserved						0	
	2	Reserved						0	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW60	1	Reserved						0	
	2	Reserved						0	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW61	1	F.A.S.T. (RMS) mode	On		Off			0	
	2	F.A.S.T. line	Line 2		Line 1			0	
	3	Verification stamp	Yes		No			0	Invalid if not mounted
	4	Day light saving	No		Yes			1	
		Key buzzer volume		Off	High	Low	Low		
	5		No. 5	0	0	1	1	1	
	6		No. 6	0	1	0	1	0	
	7	Reserved						0	
	8	Reserved						0	
SW62		Speaker volume		High	High	Middle	Low		
	1		No. 1	0	0	1	1	1	
	2		No. 2	0	1	0	1	1	
	3	Reserved						1	
	4	Reserved						0	
		Ringer volume		Off	High	Middle	Low		
	5		No. 5	0	0	1	1	1	
	6		No. 6	0	1	0	1	1	
	7	Reserved						0	
	8	Reserved						0	
SW63		Backlight setting		Always Off	3 min.	10 min.	15 min.		OPTION
	1		No. 1	0	0	1	1	0	
	2		No. 2	0	1	0	1	1	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						1	
	6	Reserved						0	
	7	Reserved						1	
	8	Reserved						0	

SW NO.	DATA NO.	ITEM	Switch setting and function						Initial setting	Remarks
			1		0					
	1	Header registration	On		Off				0	
	2	Reserved							0	
	3	Continuous serial polling	On		Off				0	
SW64		Time interval for continuous serial polling								OPTION
				0 min.	30 min.	60 min.	120 min.			When SW64 -No.3
	4		No. 4	0	0	1	1		0	is on, option setting
	5		No. 5	0	1	0	1		0	can be set up
	6	Reserved							0	
	7	Reserved							0	
	8	Quick on line function	Yes		No				1	
		Cassette selection		Manual	Auto-1	Auto-2	Auto-1			OPTION
	1		No. 1	0	0	1	1		0	
	2		No. 2	0	1	0	1		1	
		The 1st priority cassette		None	Tray	1st Cass.	N/A	Tray		OPTION
	3		No. 3	0	0	0	0	Other	0	It is effective
SW65	4		No. 4	0	0	1	1	Combination	1	only when No.31-1/2 are
	5		No. 5	0	1	0	1		0	set up of manual
		The 2nd priority cassette		None	Tray	1st Cass.	N/A	Tray		OPTION
	6		No. 6	0	0	0	0	Other	0	It is effective
	7		No. 7	0	0	1	1	Combination	1	only when No.31-1/2 are
	8		No. 8	0	1	0	1		1	set up of manual
		The 3rd priority cassette		None	Tray	1st Cass.	N/A	Tray		OPTION
	1		No. 1	0	0	0	0	Other	0	It is effective
	2		No. 2	0	0	1	1	Combination	1	only when No.31-1/2 are
	3		No. 3	0	1	0	1		1	set up of manual
SW66		Cassette selection of separate page		None	Tray	1st Cass.	N/A			OPTION
	4		No. 4	0	0	1	1		0	
	5		No. 5	0	1	0	1		1	
	6	Reserved							0	
	7	Reserved							0	
	8	Reserved							0	
		Power save mode		ON	OFF					OPTION
	1		No.1	0	0				0	
	2		No.2	0	1				0	
		Density adjustment of print bias	Binary input 4 2 1							set to 1~7.
	3		No. = 3 4 5 (Data No.) 1: faint 6: deep						1	set to 0, is
SW67	4		EX 1 0 0						0	equal to 4
	5		eg. Bias is set to level 4.						0	(100)
		Drum life detection		No Detection	Over only	Near and Over	Near and Over			
	6		No. 6	0	0	1	1		1	
	7		No. 7	0	1	0	1		1	
	8	Reserved							0	
		Distinctive ring pattern		U.S.A.	Canada	Australia	Hong Kong	For U.S.A.	For Canada	
	1		No. 1	0	0	1	1	0	0	
	2		No. 2	0	1	0	1	0	1	
SW68	3	Reserved						0		
	4	Reserved						1		
	5	Reserved						0		
	6	Reserved						0		
	7	Reserved						1		
	8	Reserved						0		

SW NO.	DATA NO.	ITEM	Switch setting and function					Initial setting	Remarks
			1				0		
SW69	1	Reserved						1	
	2	Reserved						0	
	3	Reserved						0	
	4	Reserved						1	
	5	Reserved						0	
	6	Reserved						1	
	7	Reserved						1	
	8	Reserved						0	
SW70	1	Reserved						1	
	2	Reserved						0	
	3	Reserved						1	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						1	
SW71		The default resolution for copying		Standard	Fine	S-Fine	U-Fine		OPTION
	1		No. 1	0	0	1	1	0	
	2		No. 2	0	1	0	1	1	
	3	Reserved						0	
	4	Reserved						1	
	5	Reserved						0	
		Picture quality priority mode		Standard	Fine	S-Fine	U-Fine		OPTION
	6		No. 6	0	0	1	1	0	
	7		No. 7	0	1	0	1	0	
	8	Reserved						0	
SW72	1	Reserved						1	
	2	Reserved						0	
	3	Reserved						1	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW73	1	Reserved						0	
	2	Reserved						0	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						0	
		Data reduction		AUTO	100%				The number in ( ) is
	6	(Except notation: Setting prohibition)	No. 6	0	1	Set up to 100% except the		0	applicable for the
	7		No. 7	0	0	notation		0	footer print on. Auto
	8		No. 8	0	0			0	is equivalent to 100%.
SW74	1	Automatic printing of activity report	Yes (When memory full)			No (First data is cleared when memory full)		0	OPTION
	2	Print out of total time and total number of pages on activity report	Off			On		0	
	3	Reserved						0	
	4	Department function	On			Off		0	
	5	Department ID digit	Binary input 8 4 2 1					0	OPTION
	6		No. = 5 6 7 8 (Data No.)					1	set to 3~9
	7		EX 0 1 0 0					0	
	8		eg. Department ID is set to 4 digits					0	

SW NO.	DATA NO.	ITEM	Switch setting and function					Initial setting	Remarks
			1			0			
SW75	1	Copy protect switch	On			Off		0	
	2	Cut-off mode (when copy mode)	Continue			Cut-off		0	OPTION
	3	Scanning ratio in memory input	1 : 1			Reduce		0	Memory scanning
	4	Overseas communication mode selection function	Yes			No		0	
	5	Reserved						0	
		Reduce ratio when copy mode		AUTO	100%				
	6	(Except notation: Setting prohibition)	No. 6	0	1	Set up to 100% except the		1	
	7		No. 7	0	0	notation		0	
	8		No. 8	0	0			0	
SW76	1	Reserved						0	
	2	Reserved						0	
		Density adjustment (when Fine/STD mode)		Normal	Faint	Deep	Deep (when Dark mode)		
	3		No. 3	0	0	1	1	0	
	4		No. 4	0	1	0	1	0	
		Density adjustment (when Half-tone mode)		Normal	Faint	Deep	Deep (when Dark mode)		
	5		No. 5	0	0	1	1	0	
	6		No. 6	0	1	0	1	0	
	7	MTF correction in half-tone mode	On			Off		1	
	8	MTF intensity in half-tone mode	Strong			Weak		0	
SW77	1	Cassette define LTR/A4: Tray	A4			LTR		0	
	2	Cassette define LTR/A4: Upper	A4			LTR		0	When W cassette
	3	Cassette define LTR/A4: Lower	A4			LTR		0	Ignore when W cassette
	4	Reserved						1	
	5	Reserved						1	
	6	Reserved						1	
	7	Reserved						1	
	8	Reserved						1	
SW78	1	Reserved						1	
	2	Reserved						0	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW79	1	Secure billing code	Yes			No		0	
	2	Pause with SHIFT key	Yes			No		0	Only when special billing code is given.
	3	Reserved						0	
	4	Z key pause time	Binary input 16 8 4 2 1					0	Only when the special billing code is given. The ordinary pause is not affected.
	5	(250ms unit)	No. = 4 5 6 7 8 (Data No.)					0	
	6		EX 0 0 0 0 0					0	
	7		eg. Pause time 250ms					0	
	8		Time=(n+1) x 250ms					0	
SW80	1	Separate feature	On			Off		0	
	2	Reserved						0	
	3	Reserved						0	
	4	Reserved						0	
	5	Addition of header (Sender information)	On			Off		1	
	6	DTMF sending by the panel test	On			Off		0	
	7	Power save mode	Real time			Timer		1	
	8	Ring control for line-2	ON			OFF		0	

SW NO.	DATA NO.	ITEM	Switch setting and function		Initial setting	Remarks
			1	0		
SW81	1	Reserved			1	
	2	Reserved			0	
	3	Reserved			1	
	4	Reserved			1	
	5	Reserved			1	
	6	Reserved			1	
	7	Reserved			1	
	8	Reserved			1	
SW82	1	Reserved			0	
	2	Reserved			1	
	3	Reserved			0	
	4	Reserved			1	
	5	Reserved			0	
	6	Reserved			0	
	7	Reserved			0	
	8	Reserved			0	
SW83	1	Reserved			0	
	2	Reserved			0	
	3	Reserved			0	
	4	Reserved			0	
	5	Reserved			0	
	6	Reserved			1	
	7	Reserved			0	
	8	Reserved			1	
SW84	1	Reserved			0	
	2	Reserved			0	
	3	Reserved			0	
	4	Reserved			0	
	5	Reserved			1	
	6	Reserved			1	
	7	Reserved			1	
	8	Reserved			1	
SW85	1	Reserved			0	
	2	Reserved			0	
	3	Reserved			0	
	4	Reserved			0	
	5	Reserved			0	
	6	Reserved			0	
	7	Reserved			0	
	8	Reserved			0	
SW86	1	Reserved			0	
	2	Reserved			0	
	3	Reserved			0	
	4	Reserved			0	
	5	Reserved			0	
	6	Reserved			0	
	7	Reserved			0	
	8	Reserved			0	
SW87	1	File name (Unique identifier)	On	Off	0	
	2	File name (Session page counter)	On	Off	0	
	3	File name (Date & Time)	On	Off	1	
	4	File name (Profile name)	On	Off	1	
	5	Reserved			0	
	6	Reserved			0	
	7	Reserved			0	
	8	Reserved			0	

SW NO.	DATA NO.	ITEM	Switch setting and function					Initial setting	Remarks
			1		0				
SW88		Default file format		TIFF	TIFF-F	PDF			
	1		No. 1	0	1	0		0	
	2		No. 2	0	0	1		0	
				G4	G3-1d	UNCOMPRESSED			
	3		No. 3	1	0	0		1	
	4		No. 4	0	1	0		0	
		The default resolution for Network Scanning		Standard	Fine	S-Fine	U-Fine		
	5		No. 5	0	0	1	1	0	
	6		No. 6	0	1	0	1	1	
	7	Reserved						0	
	8	Reserved						0	
SW89	1	Reserved						0	
	2	Reserved						0	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						1	
SW90	1	Reserved						0	
	2	Reserved						0	
	3	Reserved						1	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						1	
	7	Reserved						0	
	8	Reserved						1	
SW91	1	Reserved						0	
	2	Reserved						0	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW92	1	Reserved						0	
	2	Reserved						1	
	3	Waiting time after dialing	90sec		The specification of each country is followed			0	
	4	Show receiver's name	Yes (Show)		No (Hide)			1	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	
SW93	1	Reserved						0	
	2	Reserved						0	
	3	Reserved						0	
	4	Reserved						0	
	5	Reserved						0	
	6	Reserved						0	
	7	Reserved						0	
	8	Reserved						0	

SW NO.	DATA NO.	ITEM	Switch setting and function									Initial setting	Remarks
			1					0					
SW94	1	Reserved										0	
	2	Reserved										0	
	3	Reserved										0	
	4	Reserved										0	
	5	Reserved										0	
	6	Reserved										0	
	7	Reserved										0	
	8	Reserved										0	
SW95	1	Reserved										0	
	2	Reserved										0	
	3	Reserved										0	
	4	Reserved										0	
	5	Reserved										1	
	6	Reserved										1	
	7	Reserved										0	
	8	Reserved										1	
SW96	1	Network print : Auto continue	Value	0	1	2	3	4	5	6	7	0	
	2		On/off	off	on	on	on	on	on	on	on	0	
	3		Time		0s	10s	20s	30s	60s	90s	120s	0	
	4	Network print : Default paper size	A4					LETTER				0	
	5	Reserved										0	
	6	Reserved										0	
	7	Reserved										0	
	8	Reserved										1	
SW97	1	Reserved										0	
	2	Reserved										0	
	3	Reserved										0	
	4	Reserved										0	
	5	Reserved										0	
	6	Reserved										0	
	7	Reserved										0	
	8	Reserved										0	
SW98	1	Reserved										0	
	2	Reserved										0	
	3	Reserved										0	
	4	Reserved										0	
	5	Reserved										0	
	6	Reserved										0	
	7	Reserved										0	
	8	Reserved										0	
SW99	1	Reserved										0	
	2	Reserved										1	
	3	Reserved										1	
	4	Reserved										0	
	5	Reserved										0	
	6	Reserved										0	
	7	Reserved										1	
	8	Reserved										1	

• Soft switch function description

SW1 No. 1 ~ No. 4 Recall interval
Choice is made for a recall interval for speed and rapid dial numbers. Use a binary number to program this. If set to 0 accidentally, 1 will be assumed.

SW1 No. 5 ~ No. 8 Recall times
Choice is made as to how many recall times should be made. Use a binary number to program this.

SW2 No. 1 Dial mode
Switch the type according to the telephone circuit connected to the facsimile.

0: PULSE DIAL

1: TONE DIAL

SW2 No. 2 Receive mode
Auto/manual receiving mode is set.

SW2 No. 3 ECM mode
Used to determine ECM mode function.

SW2 No. 4 Reserved
Set to "0".

SW2 No. 5 Polling security
This switch is employed to enable or disable the polling operation using the ID code verification function, in order to prevent unauthorized polling operation.

SW2 No. 6 Auto cover sheet
When "1" (=YES) is selected, the cover sheet is automatically sent after transmission of the original to notify the receiver of the number of original sheets transmitted.

SW2 No. 7 JUNK-FAX function in manual reception
It is set whether JUNK-FAX is functioned in the manual receiving mode or not.

SW2 No. 8 JUNK-FAX function
This function is used to receive data from a specific remote machine (station registered in entry mode). It is the function that refused a reception in the case that TSI of remote machine matched with fax number of the station registered.

0: No

1: Yes

SW3 No. 1 ~ No. 4 Number of rings for auto-receive (0: No ring receive)
When the machine is set in the auto receive mode, the number of rings before answering can be selected. It may be set from one to nine rings using a binary number. If the soft switch was set to 1, a direct connection is made to the facsimile. If it was set to 0 accidentally, receive ring is set to 1. If it was above 9, receive rings are set to 9.

SW3 No. 5 ~ No. 8 Switch to auto-receive from manual receive (0: No switch)

This setting allows machine to switch from manual to Auto Receive mode. Setting this number to 0 forces machine to stay in Manual receive mode. Entering the binary number 0 forces the machine to remain in the manual answer mode. If a number between 1 and 9 is entered, the machine will go into the answer mode after the given number of rings. However, it can be used as an ordinary telephone if the handset is taken off the hook before this programmed number is finished. If entry of a number above 9 by accident, it will be set to 9. In this case, it must be corrected to the proper number.

SW4 No. 1 ~ No. 3 Communication results printout
It is possible to obtain communication results after each transaction. Normally, the switch is set (No. 1: 0, No. 2: 0, No. 3: 1) so that the communication result is produced only a communication error is encountered. If No. 1 was set to 1, No. 2 was set to 1 and No. 3 was set to 0, the communication result will be produced every time a communication is done, even if the communication was successful.

If No. 1 was set to 0, No. 2 to 1 and No. 3 to 0, the communication result will be produced every transmission.

Setting No. 1 to 1 No. 2 to 0 and No. 3 to 0 will disable this function. No transaction report will be printed.

If No. 1 was set to 0, No. 2 to 0 and No. 3 to 0, the communication result is produced only after a timer and memory transmission or when a communication error is encountered.

SW4 No. 4 Image addition function to the communication result table (for memory transmission only)
Used to set addition of sending image to the communication result table.

SW4 No. 5 Reserved
Set to "0".

SW4 No. 6 TEL billing code function
When set to "1", the TEL billing code function is enabled.

SW4 No. 7 Billing code position
When set to "1", the billing code is delivered before dialing the remote number. When set to "0", the billing code is delivered after dialing.

SW4 No. 8 Multi-TTI feature
When this switch is set to "1", Multi TTI function is enabled.

SW5 No. 1 Time display format
When this switch is set to "0", time is displayed in 12-hour system.

When set to "1", 24-hour system.

SW5 No. 2 Date display format
Used to select date display/print formats.

0: DAY-Month-Year

1: Month-DAY-Year

SW5 No. 3 Header print
When it is set at 0, sender's name, sending page number and so on are automatically printed in the recording paper on the receiving side during transmission. Thus, the sender can be known on the receiving side.

0: Applied.

1: Not applied.

SW5 No. 4 Footer print
When set to "1", the date of reception, the sender machine No., and the page No. are automatically recorded at the end of reception.

SW5 No. 5 Reserved
Set to "0".

SW5 No. 6 Substitute reception
Selection of substitute reception in the case of recording paper ex-hausted or paper jam. If set to "NO", auto receive is disabled even when the receive memory is ready to receive.

Substitute reception is not performed even during receive operation.

SW5 No. 7 Substitute reception conditions
Selection of substitute reception according to existence of TEL number from transmitting side. Initial setting allows substitute reception without CSI. If set to "no", the receiver cannot receive any documents

SW5 No. 8 CSI transmission
CSI signal contains the sender's phone number registered in the machine. If this switch is set to "1", no sender's name will be printed at the receiving side.

SW6 No. 1 JBIG (Joint Bi-level Image Group)
An image compression encoding method recommended by ITU-T. It realizes 2-second transmission when the power is turned on.

SW6 No. 2 JBIG (Joint Bi-level Image Group) option
An optional function for JBIG.

SW6 No. 3 MMR
MMR (Modified MR) selects presence of the compression function.

SW6 No. 4 MR
MR (Modified READ) selects presence of the compression function.

SW6 No. 5 ~ No. 8 Modem speed
Used to determine the initial modem speed. The default is 14400BPS(V.17). It may be necessary to program it to a slower speed when frequent line fallback is encountered, in order to save the time required for the fallback procedure.

SW7 No. 1, No. 2 Reception speed fixed
The transferable speed of modem in the receiving mode is set.

SW7 No. 3 DIS receive acknowledge during G3 transmission
Used to make a choice of whether reception of NSF (DIS) is acknowledged after receiving two NSFs (DISs) or receiving one NSF (two DISs).

It may be useful for overseas communication to avoid an echo suppression problem, if set to 1.

SW7 No. 4 Non-modulated carrier in V.29 transmission mode
Though transmission of a non-modulated carrier is not required for transmission by the V29 modem according to the CCITT Recommendation, it may be permitted to send a non-modulated carrier before the image signal to avoid an echo suppression problem. It may be useful for overseas communication to avoid an echo suppression problem, if set to 1.

SW7 No. 5 CNG send when manual TX
CNG signal sending ON/OFF in case of manual transmission is set.

SW7 No. 6 Protocol monitor
Normally set to "0". If set to "1", communication can be checked, in case of troubles, without using a G3 tester or other tools.

When communication FSK data transmission or reception is made, the data is taken into buffer. When communication is finished, the data analyzed and printed out. When data is received with the line monitor (SW7-No. 7) set to "1" the reception level is also printed out.

SW7 No. 7 Line monitor
Normally set to "0". If set to "1", the transmission speed and the reception level are displayed on the LCD. Used for line tests.

SW7 No. 8 Reserved
Set to "0".

SW8 No. 1, No. 2 Compromised equalizer
The specific line equalizer is inserted.

No. 1	No. 2	
0	0	The line equalizer built in the modem is turned off.
0	1	Line equalizer corresponding to 1.8 km
1	0	Line equalizer corresponding to 3.6 km
0	1	Line equalizer corresponding to 7.2 km

SW8 No. 3 H2 mode
Used to determine H2 mode (15sec transmission mode). When set to OFF, H2 mode is inhibited even though the transmitting machine has H2 mode.

SW8 No. 4 ~ No. 8 Signal transmission level
Used to control the signal transmission level in the range of –0dB to –31dB.

SW9 No. 1, No. 2 CED tone signal interval
For international communication, the 2100Hz CED tone may act as an echo suppresser switch, causing a communication problem. Though this soft switch is normally set to "0", it should be set to "1" so as to change the time between CED tone and DIS signal from 75ms to 500ms to eliminate the communication problem caused by echo.

SW9 No. 3 Equalizer freeze
This switch is used to perform reception operation by fixing the equalizer control of modem for the line which is always in an unfavorable state and picture cannot be received. Usually, the control is executed according to the state of line where the equalizer setting is changed always.

SW9 No. 4 Equalizer freeze conditions
Setting which specifies SW9 No.3 control only in condition of 7200bps modem speed.

SW9 No. 5 CED detection time
The detection time of the CED signal from the called side in the auto calling mode is set.

SW9 No. 6, No. 7 Alarm buzzer
The length of the buzzer for normal end of operation is set.

SW9 No. 8 Action when RTN received
The operation is set when the RTN signal is received in the G3 transmission mode.

SW10 No. 1 ~ No. 4 Memory retransmission times
The number of memory retransmissions is set.

SW10 No. 5 ~ No. 8 Memory retransmission interval
The interval between memory retransmissions is set.

SW11 No. 1 ~ No. 4 V.34 mode transmission speed
Used to determine the initial modem speed when communication method is V.34 transmission mode.

SW11 No. 5 ~ No. 8 V.34 mode receiving speed
Used to determine the initial modem speed when communication method is V.34 reception mode.

SW12 No. 1 V.34 mode function in case of manual communication
Used to select whether the V.34 mode is made valid when automatically transmitting/receiving.

SW12 No. 2 V.34 mode function
Used to select the V.34 mode for communication when set to “1”, communication method is V.34 mode..

SW12 No. 3 V.34 control channel communication speed
Used to select the control channel communication speed for V.34 mode.

SW12 No. 4, No. 5 EOL detection timer
Used to make a choice of whether to use the 25-second or 13-second timer for detection of End of line This is effective to override communication failures with some facsimile models that have longer End of line detection.

SW12 No. 6, No. 7 Processing of DIS reception after DIS transmission
When receiving , operation in case of DIS reception after DIS transmission is selected. Retransmitting command: To retransmit DIS in disregard of DIS reception.
Breaking circuit: To break circuit instantly. (Abnormal finish)
T. 30: To operate in accordance with T.30.
T. 30+α: To operate in accordance with T.30+α. (To operate differently according to cases.)

SW12 No. 8 The change to DB from DP by ✳
When setting to 1, the mode is changed by pressing the ✳ key from the pulse dial mode to the tone dial mode.

SW13 No. 1 ~ No. 5 DTMF output level (High)
To set the level to output high group DTMF signals. –15 to 0 dBm (0.5 dBm unit)

SW13 No. 6 ~ No. 8 Reserved
Set to "0".

SW14 No. 1 ~ No. 5 DTMF output level (Low)
To set the level to output low group DTMF signals. –15 to 0 dBm (0.5 dBm unit)

SW14 No. 6 ~ No. 8 Reserved
Set to "0".

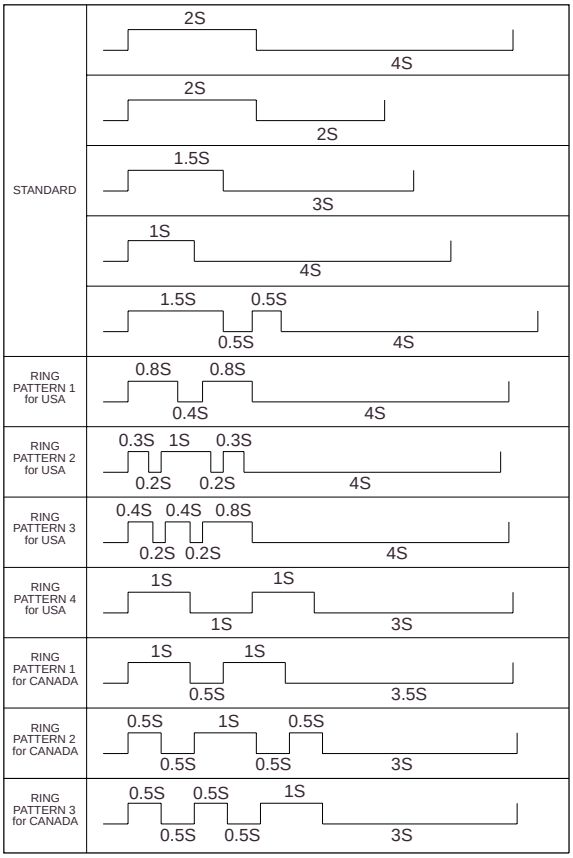
SW15 No. 1 ~ No. 4 Reserved
Set to "0".

SW15 No. 5 ~ No. 8 CI signal OFF detect enable time
Used to set the continuous detection time during OFF period of CI signal.

SW16 No. 1 ~ No. 4 Reserved
Set to "0".

SW16 No. 5 ~ No. 8 Distinctive ringing
When the ringing setting is turned off, all of the CI signal are received. When any of the standard, and ring patterns 1 through 3 is selected for the ringing setting, only the selected CI signal is received.

CI signal patterns
The CI signal patterns consists of the standard pattern, and ring patterns 1 through 7. The standard pattern is the conventional one.



SW17 No. 1 ~ No. 7 Reserved
Set to "0".

SW17 No. 8 Reserved
Set to "1".

SW18 No. 1 Reserved
Set to "1".

SW18 No. 2 ~ No. 4 Reserved
Set to "0".

SW18 No. 5 , No. 6 Reserved
Set to "1".

SW18 No. 7 , No. 8 Reserved
Set to "0".

SW19 No. 1 Reserved
Set to "1".

SW19 No. 2 ~ No. 4 Reserved
Set to "0".

SW19 No. 5 Reserved
Set to "1".

SW19 No. 6 ~ No. 8 Reserved
Set to "0".

SW20 No. 1 ~ No. 8 Reserved
Set to "0".

SW21 No. 1 ~ No. 3 Reserved
Set to "0".

SW21 No. 4 ~ No. 6 Busy tone detection frequency
To select frequency range of signals to be detected as Busy Tone.

SW21 No. 7, No. 8 Reserved
Set to "0".

SW22 No. 1 ~ No. 3 Service condition for line-1
000: Transmission is enabled. Reception mode is auto.
001: Transmission is enabled. Reception mode is manual only.
010: Transmission is disable. Reception mode is auto.
011: Transmission is disable. Reception mode is manual only.

SW22 No. 4 Reserved
Set to "0".

SW22 No. 5 Reserved
Set to "1".

SW22 No. 6 ~ No. 8 Reserved
Set to "0".

SW23 No. 1 Reserved
Set to "0".

SW23 No. 2 Reserved
Set to "1".

SW23 No. 3 Reserved
Set to "0".

SW23 No. 4 Reserved
Set to "1".

SW23 No. 5, No. 6 Reserved
Set to "0".

SW23 No. 7 Reserved
Set to "1".

SW23 No. 8 Reserved
Set to "0".

SW24 No. 1 Dial mode
Switch the type according to the telephone circuit connected to the facsimile.
0: PULSE DIAL
1: TONE DIAL

SW24 No. 2 Receive mode for line-2
Auto/manual receiving mode is set.

SW24 No. 3, No. 4 Reserved
Set to "0".

SW24 No. 5, No. 6 Reserved
Set to "1".

SW24 No. 7, No. 8 Reserved
Set to "0".

SW25 No. 1 ~ No. 4 Number of rings for auto-receive (0: No ring receive)
When the machine is set in the auto receive mode, the number of rings before answering can be selected. It may be set from one to nine rings using a binary number. If the soft switch was set to 1, a direct connection is made to the facsimile. If it was set to 0 accidentally, receive ring is set to 1. If it was above 9, receive rings are set to 9.

SW25 No. 5 ~ No. 8 Reserved
Set to "0".

SW26 No. 1, No. 2 Reserved
Set to "0".

SW26 No. 3, No. 4 Reserved
Set to "1".

SW26 No. 5, No. 6 Reserved
Set to "0".

SW26 No. 7 Reserved
Set to "1".

SW26 No. 8 Reserved
Set to "0".

SW27 No. 1 Reserved
Set to "0".

SW27 No. 2 Reserved
Set to "1".

SW27 No. 3 ~ No. 8 Reserved
Set to "0".

SW28 No. 1 JBIG (Joint Bi-level Image Group)
An image compression encoding method recommended by ITU-T. It realizes 2-second transmission when the power is turned on.

SW28 No. 2 JBIG (Joint Bi-level Image Group) option
An optional function for JBIG.

SW28 No. 3 MMR
MMR (Modified MR) selects presence of the compression function.

SW28 No. 4 MR
MR (Modified READ) selects presence of the compression function.

SW28 No. 5 ~ No. 8 Modem speed
Used to determine the initial modem speed. The default is 14400BPS(V.17). It may be necessary to program it to a slower speed when frequent line fallback is encountered, in order to save the time required for the fallback procedure.

SW29 No. 1, No. 2 Reception speed fixed
The transferable speed of modem in the receiving mode is set.

SW29 No. 3 DIS receive acknowledge during G3 transmission
Used to make a choice of whether reception of NSF (DIS) is acknowledged after receiving two NSFs (DISs) or receiving one NSF (two DISs).

It may be useful for overseas communication to avoid an echo suppression problem, if set to 1.

SW29 No. 4 Non-modulated carrier in V.29 transmission mode
Though transmission of a non-modulated carrier is not required for transmission by the V29 modem according to the CCITT Recommendation, it may be permitted to send a non-modulated carrier before the image signal to avoid an echo suppression problem. It may be useful for overseas communication to avoid an echo suppression problem, if set to 1.

SW29 No. 5 CNG send when manual TX
CNG signal sending ON/OFF in case of manual transmission is set.

SW29 No. 6 Protocol monitor
Normally set to "0". If set to "1", communication can be checked, in case of troubles, without using a G3 tester or other tools.

When communication FSK data transmission or reception is made, the data is taken into buffer. When communication is finished, the data analyzed and printed out. When data is received with the line monitor (SW7-No. 7) set to "1" the reception level is also printed out.

SW29 No. 7 Line monitor
Normally set to "0". If set to "1", the transmission speed and the reception level are displayed on the LCD. Used for line tests.

SW29 No. 8 Reserved
Set to "0".

SW30 No. 1, No. 2 Compromised equalizer
The specific line equalizer is inserted.

No. 1	No. 2	
0	0	The line equalizer built in the modem is turned off.
0	1	Line equalizer corresponding to 1.8 km
1	0	Line equalizer corresponding to 3.6 km
0	1	Line equalizer corresponding to 7.2 km

SW30 No. 3 H2 mode
Used to determine H2 mode (15sec transmission mode). When set to OFF, H2 mode is inhibited even though the transmitting machine has H2 mode.

SW30 No. 4 ~ No. 8 Signal transmission level
Used to control the signal transmission level in the range of –0dB to –31dB.

SW31 No. 1, No. 2 CED tone signal interval
For international communication, the 2100Hz CED tone may act as an echo suppresser switch, causing a communication problem. Though this soft switch is normally set to "0", it should be set to "1" so as to change the time between CED tone and DIS signal from 75ms to 500ms to eliminate the communication problem caused by echo.

SW31 No. 3 Equalizer freeze
This switch is used to perform reception operation by fixing the equalizer control of modem for the line which is always in an unfavorable state and picture cannot be received. Usually, the control is executed according to the state of line where the equalizer setting is changed always.

SW31 No. 4 Equalizer freeze conditions
Setting which specifies SW9 No.3 control only in condition of 7200bps modem speed.

SW31 No. 5 ~ No. 8 Reserved
Set to "0".

SW32 No. 1 Reserved
Set to "1".

SW32 No. 2 Reserved
Set to "0".

SW32 No. 3 Reserved
Set to "1".

SW32 No. 4 ~ No. 6 Reserved
Set to "0".

SW32 No. 7 Reserved
Set to "1".

SW32 No. 8 Reserved
Set to "0".

SW33 No. 1 ~ No. 4 V.34 mode transmission speed
Used to determine the initial modem speed when communication method is V.34 transmission mode.

SW33 No. 5 ~ No. 8 V.34 mode receiving speed
Used to determine the initial modem speed when communication method is V.34 reception mode.

SW34 No. 1 Reserved
Set to "1".

SW34 No. 2 V.34 mode function
Used to select the V.34 mode for communication when set to “1”, communication method is V.34 mode..

SW34 No. 3 V.34 control channel communication speed
Used to select the control channel communication speed for V.34 mode.

SW34 No. 4, No. 5 EOL detection timer
Used to make a choice of whether to use the 25-second or 13-second timer for detection of End of line This is effective to override communication failures with some facsimile models that have longer End of line detection.

SW34 No. 6, No. 7 Processing of DIS reception after DIS transmission
When receiving , operation in case of DIS reception after DIS transmission is selected. Retransmitting command: To retransmit DIS in disregard of DIS reception.
Breaking circuit: To break circuit instantly. (Abnormal finish)
T. 30: To operate in accordance with T.30.
T. 30+α: To operate in accordance with T.30+α. (To operate differently according to cases.)

SW34 No. 8 Reserved
Set to "0".

SW35 No. 1 ~ No. 5 DTMF output level (High)
To set the level to output high group DTMF signals. –15 to 0 dBm (0.5 dBm unit)

SW35 No. 6 ~ No. 8 Reserved
Set to "0".

SW36 No. 1 ~ No. 5 DTMF output level (Low)
To set the level to output low group DTMF signals. –15 to 0 dBm (0.5 dBm unit)

SW36 No. 6 ~ No. 8 Reserved
Set to "0".

SW37 No. 1 ~ No. 5 Reserved
Set to "0".

SW37 No. 6 Reserved
Set to "1".

SW37 No. 7 Reserved
Set to "0".

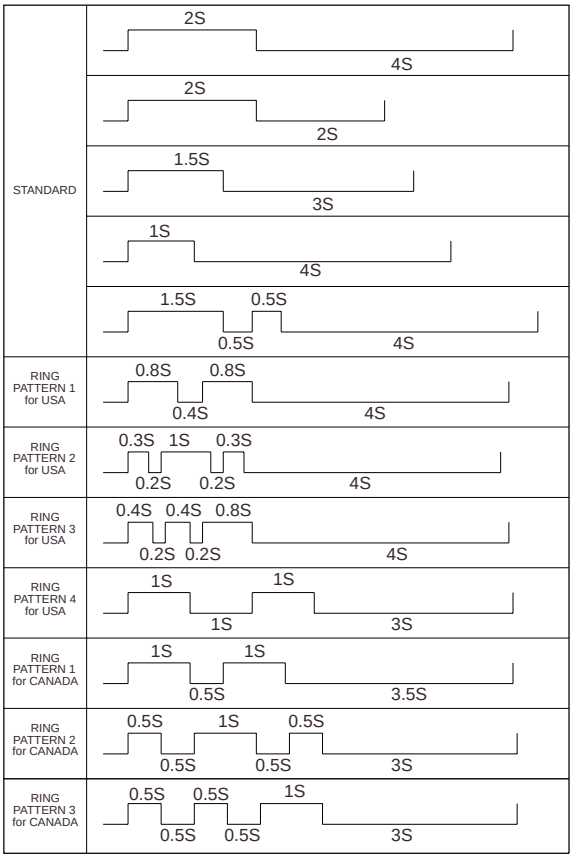
SW37 No. 8 Reserved
Set to "1".

SW37 No. 5 ~ No. 8 CI signal off detect enable time
Used to set the continuous detection time during OFF period of CI signal. Normally set to 700ms, where the short ring (500ms: OFF period) cannot be detected. Therefore, selection of 350ms is allowed.

SW38 No. 1 ~ No. 4 Reserved
Set to "0".

SW38 No. 5 ~ No. 8 Distinctive ringing
When the ringing setting is turned off, all of the CI signal are received. When any of the standard, and ring patterns 1 through 3 is selected for the ringing setting, only the selected CI signal is received.

CI signal patterns
The CI signal patterns consists of the standard pattern, and ring patterns 1 through 7. The standard pattern is the conventional one.



SW39 No. 1 ~ No. 7 Reserved
Set to "0".

SW39 No. 8 Reserved
Set to "1".

SW40 No. 1 Reserved
Set to "1".

SW40 No. 2 ~ No. 4 Reserved
Set to "0".

SW40 No. 5, No. 6 Reserved
Set to "1".

SW40 No. 7, No. 8 Reserved
Set to "0".

SW41 No. 1 Reserved
Set to "1".

SW41 No. 2 ~ No. 4 Reserved
Set to "0".

SW41 No. 5 Reserved
Set to "1".

SW41 No. 6 ~ No. 8 Reserved
Set to "0".

SW42 No. 1, No. 2 DTMF detection time
Used to set detect time of DTMF (Dual Tone Multi Frequency) used in remote reception (5 ✕ ✕). The longer the detection time is, the error detection is caused by noises.

SW42 No. 3 ~ No. 8 Reserved
Set to "0".

SW43 No. 1 ~ No. 3 Reserved
Set to "0".

SW43 No. 4 ~ No. 6 Busy tone detection frequency
To select frequency range of signals to be detected as Busy Tone.

SW43 No. 7, No. 8 Reserved
Set to "0".

SW44 No. 1 ~ No. 3 Service condition for line-2
000: Transmission is enabled. Reception mode is auto.
001: Transmission is enabled. Reception mode is manual only.
010: Transmission is disable. Reception mode is auto.

SW44 No. 4 ~ No. 8 Reserved
Set to "0".

SW45 No. 1 ~ No. 6 Reserved
Set to "0".

SW45 No. 7 Reserved
Set to "1".

SW45 No. 8 Reserved
Set to "0".

SW46 No. 1 ~ No. 8 Reserved
Set to "0".

SW47 No. 1 ~ No. 4 Reserved
Set to "0".

SW47 No. 5 Reserved
Set to "1".

SW47 No. 6, No. 7 Reserved
Set to "0".

SW47 No. 8 Reserved
Set to "1".

SW48 No. 1 Reserved
Set to "1".

SW48 No. 2, No. 3 Reserved
Set to "0".

SW48 No. 4, No. 5 Reserved
Set to "1".

SW48 No. 6, No. 7 Reserved
Set to "0".

SW48 No. 8 Reserved
Set to "1".

SW49 No. 1 Reserved
Set to "1".

SW49 No. 2, No. 3 Reserved
Set to "0".

SW49 No. 4, No. 5 Reserved
Set to "1".

SW49 No. 6, No. 7 Reserved
Set to "0".

SW49 No. 8 Reserved
Set to "1".

SW50 No. 1 ~ No. 7 Reserved
Set to "0".

SW50 No. 8 Reserved
Set to "1".

SW51 No. 1 ~ No. 8 Reserved
Set to "0".

SW52 No. 1 ~ No. 8 Reserved
Set to "0".

SW53 No. 1 ~ No. 8 Reserved
Set to "0".

SW54 No. 1 ~ No. 8 Reserved
Set to "0".

SW55 No. 1 ~ No. 8 Reserved
Set to "0".

SW56 No. 1 ~ No. 8 Reserved
Set to "0".

SW57 No. 1 ~ No. 8 Reserved
Set to "0".

SW58 No. 1 ~ No. 8 Reserved
Set to "0".

SW59 No. 1 ~ No. 8 Reserved
Set to "0".

SW60 No. 1 ~ No. 8 Reserved
Set to "0".

SW61 No. 1 F.A.S.T. (RMS) mode
Used to determine a function of remote maintenance system (F.A.S.T.).

SW61 No. 2 F.A.S.T. (RMS) line
The line where the F.A.S.T. function is set.

SW61 No. 3 Verification stamp
End stamp:
It is set whether the red round mark is stamped at the bottom margin of the document of every page in the memory input mode and document sending mode or not.

SW61 No. 4 Day light saving
The day light saving function ON/OFF is set.

SW61 No. 5, No. 6 Key buzzer volume
Key buzzer volume:
The sound volume of key inputting buzzer and other buzzers is set.

SW61 No. 7, No. 8 Reserved
Set to "0".

SW62 No. 1, No. 2 Speaker volume
Speaker volume:
The sound volume of the speaker in the on-hook mode is set.

SW62 No. 3 Reserved
Set to "1".

SW62 No. 4 Reserved
Set to "0".

SW62 No. 5, No. 6 Ringer volume
Ringer volume:
The calling sound volume of CI signal receiving is set.

SW62 No. 7, No. 8 Reserved
Set to "0".

SW63 No. 1, No. 2 Backlight setting
LCD backlight is lit whilst the key operation, etc. is performed. It turns off after a period of time without any operation. This SW is used to select the time interval until the backlight turns off.

SW63 No. 2 Reserved
Set to "1".

SW63 No. 3, No. 4 Reserved
Set to "0".

SW63 No. 5 Reserved
Set to "1".

SW63 No. 6 Reserved
Set to "0".

SW63 No. 7 Reserved
Set to "1".

SW63 No. 8 Reserved
Set to "0".

SW64 No. 1 Header registration
When setting this switch to "1", registering senders is protected.

SW64 No. 2 Reserved
Set to "0".

SW64 No. 3 Continuous serial polling
Turns ON/OFF the continuous polling function.

SW64 No. 4, No. 5 Time interval for continuous serial polling
Used to set the interval time for continuous serial polling. Normally set to no interval (0 minute).

SW64 No. 6, No. 7 Reserved
Set to "0".

SW64 No. 8 Quick on line function
It is selected whether auto dial call is activated in the memory input mode when one document is completely read or when all pages are completely read.

SW65 No. 1, No. 2 Cassette selection
To set selective modes for detail paper cassettes of the printer.

00:	Manual	To select detail paper in the first priority cassette in accordance with setting by SW65 3-8 and SW65 1-3. If the detail paper in the first priority cassette runs short, the second priority cassette will be used.
01:	Automatic 1	To automatically select detail paper with optimum size among the first to third priority cassettes in accordance with setting by SW65 3-8 and SW65 1-3. The optimum paper is selected by every page. If all the cassettes have the same size paper, paper will be selected according to the cassette priority.
10:	Automatic 2	To automatically select detail paper with optimum size among the first to third priority cassettes in accordance with setting by SW65 3-8 and SW65 1-3. At the start of printing, the optimum paper is adopted only for the first page. Thereafter the same cassette selected for the first page will be used from the second page and after. If all the cassettes have the same size paper, paper will be selected according to the cassette priority.
11:	Except the above	01: the same setting as in the case of Automatic 1

SW65 No. 3 ~ No. 5 The 1st priority cassette
To select the first priority cassette.

001:	1st paper feeder (MP-TRAY)
010:	2nd paper feeder
011:	3rd paper feeder
Except the above	Printing started from the possible paper feeder

SW65 No. 6 ~ No. 8 The 2nd priority cassette
To select the second priority cassette.

000:	Not used (To set in case of using only paper feeder that has been set in the first priority cassette)
001:	1st paper feeder (MP-TRAY)
010:	2nd paper feeder
011:	3rd paper feeder
Except the above	Not used

SW66 No. 1 ~ No. 3 The 3rd priority cassette
To select the second priority cassette.

000:	Not used (To set in case of using only paper feeder that has been set in the first priority cassette)
001:	1st paper feeder (MP-TRAY)
010:	2nd paper feeder
011:	3rd paper feeder
Except the above	Not used

SW66 No. 4, No. 5 Cassette selection of separate page
The supply origin of a separate page is set.

SW66 No. 6 ~ No. 8 Reserved
Set to "0".

SW67 No.1, No. 2 Power save mode
The heater mode of a printer is set.

SW67 No. 3 ~ No. 5 Density adjustment of print bias
The density of printing is set.

It can be also set in the print diagnosis mode.

SW67 No. 6, No. 7 Drum life detection
The detection mode of Drum life is set.

SW67 No. 8 Reserved
Set to "0".

SW68 No. 1, No. 2 Distinctive ring pattern
The distinctive ring patter is set for country.

SW68 No. 3 Reserved
Set to "0".

SW68 No. 4 Reserved
Set to "1".

SW68 No. 5, No. 6 Reserved
Set to "0".

SW68 No. 7 Reserved
Set to "1".

SW68 No. 8 Reserved
Set to "0".

SW69 No. 1 Reserved
Set to "1".

SW69 No. 2, No. 3 Reserved
Set to "0".

SW69 No. 4 Reserved
Set to "1".

SW69 No. 5 Reserved
Set to "0".

SW69 No. 6, No. 7 Reserved
Set to "1".

SW69 No. 8 Reserved
Set to "0".

SW70 No. 1 Reserved
Set to "1".

SW70 No. 2 Reserved
Set to "0".

SW70 No. 3 Reserved
Set to "1".

SW70 No. 4 ~ No. 7 Reserved
Set to "0".

SW70 No. 8 Reserved
Set to "1".

SW71 No. 1, No. 2 The default resolution for copying
In case of copying without pressing the RESOLUTION key, resolution will be super fine.

SW71 No. 3 Reserved
Set to "0".

SW71 No. 4 Reserved
Set to "1".

SW71 No. 5 Reserved
Set to "0".

SW71 No. 6, No. 7 Picture quality priority mode

Used to set the transmission mode which is automatically selected when the MODE key is not pressed. In the copy mode, however, the fine mode is automatically selected unless the MODE key is manually set to another mode.

SW71 No. 8 Reserved
Set to "0".

SW72 No. 1 Reserved
Set to "1".

SW72 No. 2 Reserved
Set to "0".

SW72 No. 3 Reserved
Set to "1".

SW72 No. 4 ~ No. 8 Reserved
Set to "0".

SW73 No. 1 ~ No. 5 Reserved
Set to "0".

SW73 No. 6 ~ No. 8 Data reduction
Reduction ratio of receiving is set .
It can be changed even in the optional mode.
To set printing reduction rate of received images.

000:	Automatic
100:	100%
Except the above	100%

SW74 No. 1 Automatic printing of activity report
This soft switch is used to select; whether or not to produce the activity report when the memory is full (about 50 items). An activity report can be produced when the following key entry command is made.

"FUNC", "2", "#", "START"

After producing the activity report, all the data in the memory will be cleared.

When the switch function is set to "0" (NO), the data in memory will be deleted from the oldest as it reaches the maximum memory capacity (approx. 50 items).

SW74 No. 5 ~ No. 8 Department ID digit
Used to set the department ID digit number .
When set to "D" , the number is "4" .

SW75 No. 1 Copy protect switch
When this switch is set to “1”, copy is for bidden.

SW75 No. 2 Cut-off mode (when copy mode)
When in copy, if the scanned data is out of the range of recording, the operator has one of the choices below using the switch.

0: Continue: Data is printed onto the next page with the last 20mm also printed at the beginning of the next page.

1: Cut off: Data scanned out of the limit is cut off (a page is printed.)

SW75 No. 3 Scanning ratio in memory input
In the case of memory transmission, etc., only letter size (A4) documents can be stored in the memory. To input B4 documents into the memory, therefore, the B4 documents must be reduced to letter size (A4) or the both ends of the B4 documents will be cut off to input the center letter-size (A4) portion. This switch provides the selection.

0: Reduced to A4 size and inputted.

1: Both ends are cut off and the center portion (A4 size) is inputted.

SW75 No. 4 Overseas communication mode selection function
When this switch is set to "1", the communication is Super G3 mode can be turned off by pressing the "SPACE" key before sending operation, for the transmission set after that (including polling).

SW75 No. 5 Reserved
Set to "0".

SW75 No. 6 ~ No. 8 Reduce ratio when copy mode
Reduction ratio of copying is set .
It can changed even in the optional mode.

SW76 No. 1, No. 2 Reserved
Set to "0".

SW76 No. 3, No. 4 Density adjustment (when Fine/STD mode)
This is used for density adjustment in fine/standard mode. Adjust the density according to that of frequently used original.

Set to "Dark" for darker reading (either in the auto or the dark mode) of light original. Set to "Light" for lighter reading (either in the auto or the dark mode) of dark original.

Set to "Dark only in dark mode" for darker reading only in the dark mode.

SW76 No. 5, No. 6 Density adjustment (when half-tone mode)
This is used for density adjustment in the half tone. Setting procedures are the same as SW46 No. 3 and No. 4.

SW76 No. 7 MTF correction in half-tone mode
In the half tone mode, image area is separated from character area and processed separately to eliminate unclear character transmission. This switch is used to change the criteria of judgement of separation. When "Strong" (= 1) is selected, more area is judged as character area, providing clearer characters.

On the contrary, however, edges of image area may be emphasized.

It is advisable to restrict the use of this function only when clear characters must be transmitted, and to use the function of "Weak" (= 0) for general cases.

SW76 No. 8 MTF intensity in half-tone mode
This allows selection of MTF correction (dimness correction) in the half tone mode. When "NO" (= 1) is selected, the whole image becomes soft and mild, On the contrary, however, mildness of characters will be reduced. Normally set to "NO" (= 1).

SW77 No. 1 Cassette define LTR / A4:Tray
A4 cassette can be used .
Set "0" or "1" for all of three bits.
Do not change the setting during printing.

SW77 No. 2 Cassette define LTR / A4:Upper
A4 cassette can be used .
Set "0" or "1" for all of three bits.
Do not change the setting during printing.

SW77 No. 3 Cassette define LTR / A4:Upper
A4 cassette can be used .
Set "0" or "1" for all of three bits.
Do not change the setting during printing.

SW77 No. 4 ~ No. 8 Reserved
Set to "1".

SW78 No. 1 Reserved
Set to "1".

SW78 No. 2 ~ No. 8 Reserved
Set to "0".

SW79 No. 1 Secure billing code
When the tel. billing code function is ON, the operation of secure billing code is enabled .

SW79 No. 2 Pause with SHIFT key
The SHIFT key pause time is set.

SW79 No. 3 Reserved
Set to "0".

SW79 No. 4 ~ No. 8 Z key pause time (250ms unit)
The Z key pause time is set.

SW80 No. 1 Separate feature
The separate mode ON/OFF is set.

SW80 No. 2 ~ No. 4 Reserved
Set to "0".

SW80 No. 5 Addition of header (Sender information)
ON/OFF of addition of header (sender information) to various list is set.

SW80 No. 6 DTMF sending by the panel test
When ten keys are pressed in the Panel Test Mode of the diagnosis, the corresponding DTMF signals are output.

SW80 No. 7 Power save mode
To switch power save mode system either to real time or to timer.

SW80 No. 8 Ring control for line-2
The ringer ringing ON/OFF is set when incoming call is received through the line-2.

SW81 No. 1 Reserved
Set to "1".

SW81 No. 2 Reserved
Set to "0".

SW81 No. 3 ~ No. 8 Reserved
Set to "1".

SW82 No. 1 Reserved
Set to "0".

SW82 No. 2 Reserved
Set to "1".

SW82 No. 3 Reserved
Set to "0".

SW82 No. 4 Reserved
Set to "1".

SW82 No. 5 ~ No. 8 Reserved
Set to "0".

SW83 No. 1 ~ No. 5 Reserved
Set to "0".

SW83 No. 6 Reserved
Set to "1".

SW83 No. 7 Reserved
Set to "0".

SW83 No. 8 Reserved
Set to "1".

SW84 No. 1 ~ No. 4 Reserved
Set to "0".

SW84 No. 5 ~ No. 8 Reserved
Set to "1".

SW85 No. 1 ~ No. 8 Reserved
Set to "0".

SW86 No. 1 ~ No. 8 Reserved
Set to "0".

SW87 No. 1 File name (Unique identifier)
The file names of the E-MAIL notice and files from the FTP server will be automatically created from the following elements. By setting the SWs below, file names with these elements are generated. : A unique number generated from the machine serial number and the date and time data.

SW87 No. 2 File name (Session page counter)
The file names of the E-MAIL notice and files from the FTP server will be automatically created from the following elements. By setting the SWs below, file names with these elements are generated. : Counter

SW87 No. 3 File name (Date & Time)
The file names of the E-MAIL notice and files from the FTP server will be automatically created from the following elements. By setting the SWs below, file names with these elements are generated. : Date and time data

SW87 No. 4 File name (Profile name)
The file names of the E-MAIL notice and files from the FTP server will be automatically created from the following elements. By setting the SWs below, file names with these elements are generated. : Sender's name

SW87 No. 5 ~ No. 8 Reserved
Set to "0".

SW88 No. 1 ~ No. 4 Default file format
SW setting the default of the compression format and the file type required for generating the image data from network scanned data.

SW88 No. 5, No. 6 The default resolution for Network Scanning
SW setting the default resolution on network scanning.

SW88 No. 7, No. 8 Reserved
Set to "0".

SW89 No. 1 ~ No. 7 Reserved
Set to "0".

SW89 No. 8 Reserved
Set to "1".

SW90 No. 1, No. 2 Reserved
Set to "0".

SW90 No. 3 Reserved
Set to "1".

SW90 No. 4, No. 5 Reserved
Set to "0".

SW90 No. 6 Reserved
Set to "1".

SW90 No. 7 Reserved
Set to "0".

SW90 No. 8 Reserved
Set to "1".

SW91 No. 1 ~ No. 8 Reserved
Set to "0".

SW92 No. 1 Reserved
Set to "0".

SW92 No. 2 Reserved
Set to "1".

SW92 No. 3 Waiting time after dialing
The set up of the call time of the auto dial.
90 sec. or depends on each country's specifications.

SW92 No. 4 Show receiver's name
This switch is used to note the receiver's name on the transaction report and activity report. When this switch is set to "0", the receiver's dial number is printed on the report.

SW92 No. 5 ~ No. 8 Reserved
Set to "0".

SW93 No. 1 ~ No. 8 Reserved
Set to "0".

SW94 No. 1 ~ No. 8 Reserved
Set to "0".

SW95 No. 1 ~ No. 4 Reserved
Set to "0".

SW95 No. 5, No. 6 Reserved
Set to "1".

SW95 No. 7 Reserved
Set to "0".

SW95 No. 8 Reserved
Set to "1".

SW96 No. 1 ~ No. 3 Network print : Auto continue
When the paper of designated size runs out whilst printing, the unit will pause until the paper of the selected size is supplied. This function allows to continue printing with the paper of alternative size, if the paper of designated size was not supplied even after a period of time. This SW is for setting ON/OFF of this function, and the ON waiting time.

SW96 No. 4 Network print : Default paper size
When the selected paper size was other than the size that can be set in this unit (LTR, LGL, A4), an alternative paper size can be set with this SW.

SW96 No. 5 ~ No. 7 Reserved
Set to "0".

SW96 No. 8 Reserved
Set to "1".

SW97 No. 1 ~ No. 8 Reserved
Set to "0".

SW98 No. 1 ~ No. 8 Reserved
Set to "0".

SW99 No. 1 Reserved
Set to "0".

SW99 No. 2, No. 3 Reserved
Set to "1".

SW99 No. 4 ~ No. 6 Reserved
Set to "0".

SW99 No. 7, No. 8 Reserved
Set to "1".

[3] Troubleshooting

Refer to the service manual of FO-4400U.

[4] Error code table

Refer to the service manual of FO-4400U.

[5] Overseas communication mode

Refer to the service manual of FO-4400U.

[6] Administrator mode in the personal book function

Refer to the service manual of FO-4400U.

CHAPTER 3. MECHANICAL DESCRIPTION

[1] Mechanical description

Refer to the service manual of FO-DC500U.

[2] Printer description

Refer to the service manual of FO-DC500U.

[3] Disassembly and assembly procedures

- This chapter mainly describes the disassembly procedures. For the assembly procedures, reverse the disassembly procedures.
- Easy and simple disassembly/assembly procedures of some parts and units are omitted. For disassembly and assembly of such parts and units, refer to the Parts List.
- The numbers in the illustration, the parts list and the flowchart in a same section are common to each other.
- To assure reliability of the product, the disassembly and the assembly procedures should be performed carefully and deliberately.

1	**Rear cabinet, 2nd Paper cassette left cabinet, Joint left angle**

Parts list (Fig. 1)

No.	Part name	Qty	No.	Part name	Qty
1	Main unit	1	8	Cassette PWB cover	1
2	Screw (3×10)	1	9	Screw (3×10)	2
3	PWB cover	1	10	2nd Paper cassette left cabinet	1
4	Screw (3×10)	6	11	Screw (3×6)	4
5	Rear cabinet	1	12	Screw (3×10)	2
6	Connector	1	13	Joint left angle	1
7	Screw (3×10)	1			

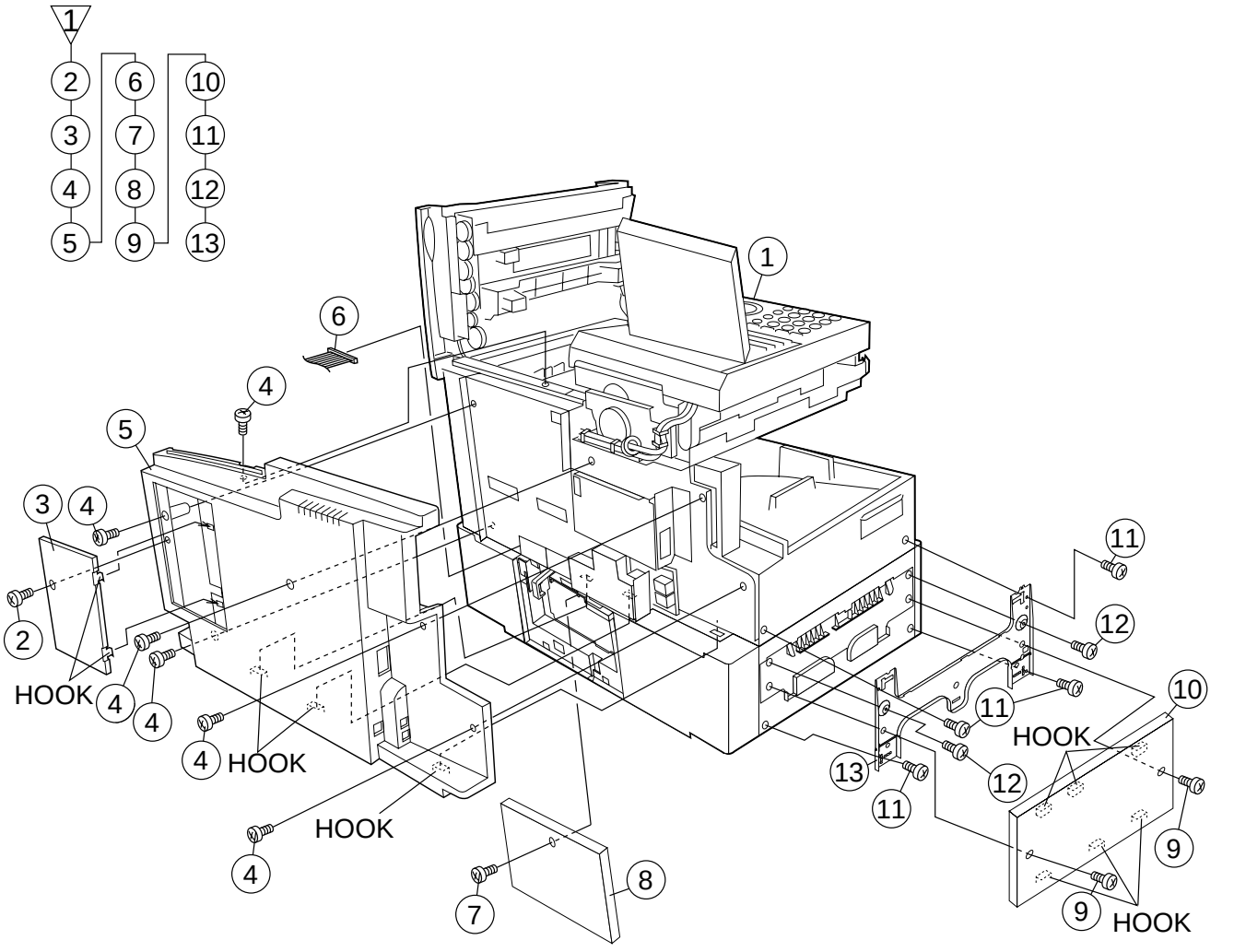


Fig. 1

2	**PWB plate, Rear cabinet, 2nd Paper cassette right cabinet, Joint right angle 1/2, 2nd Paper cassette unit**

Parts list (Fig. 2)

No.	Part name	Qty	No.	Part name	Qty
1	Main unit	1	8	Screw (3×6)	3
2	Screw (3×6)	6	9	Screw (3×10)	1
3	PWB plate	1	10	Joint right angle 2	1
4	Screw (3×10)	2	11	Screw (3×6)	4
5	Right cabinet	1	12	Screw (3×10)	1
6	Screw (3×10)	2	13	Joint right angle 1	1
7	2nd Paper cassette right cabinet	1	14	2nd Paper cassette unit	1

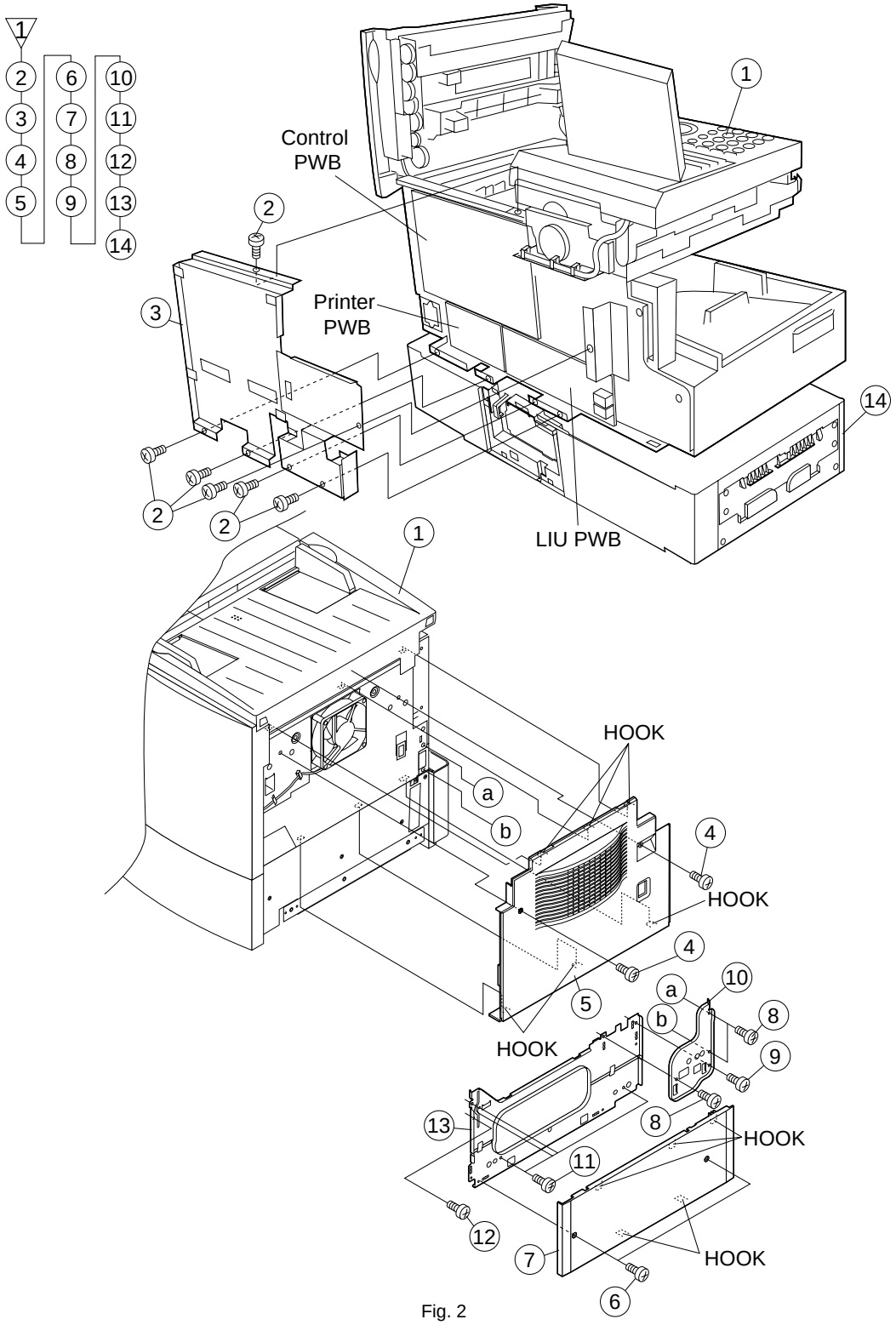


Fig. 2

3	**Front cabinet**

Parts list (Fig. 3)

No.	Part name	Qty
1	Main unit	1
2	Screw (3×10)	2
3	Screw (3×10)	1
4	Front cabinet	1

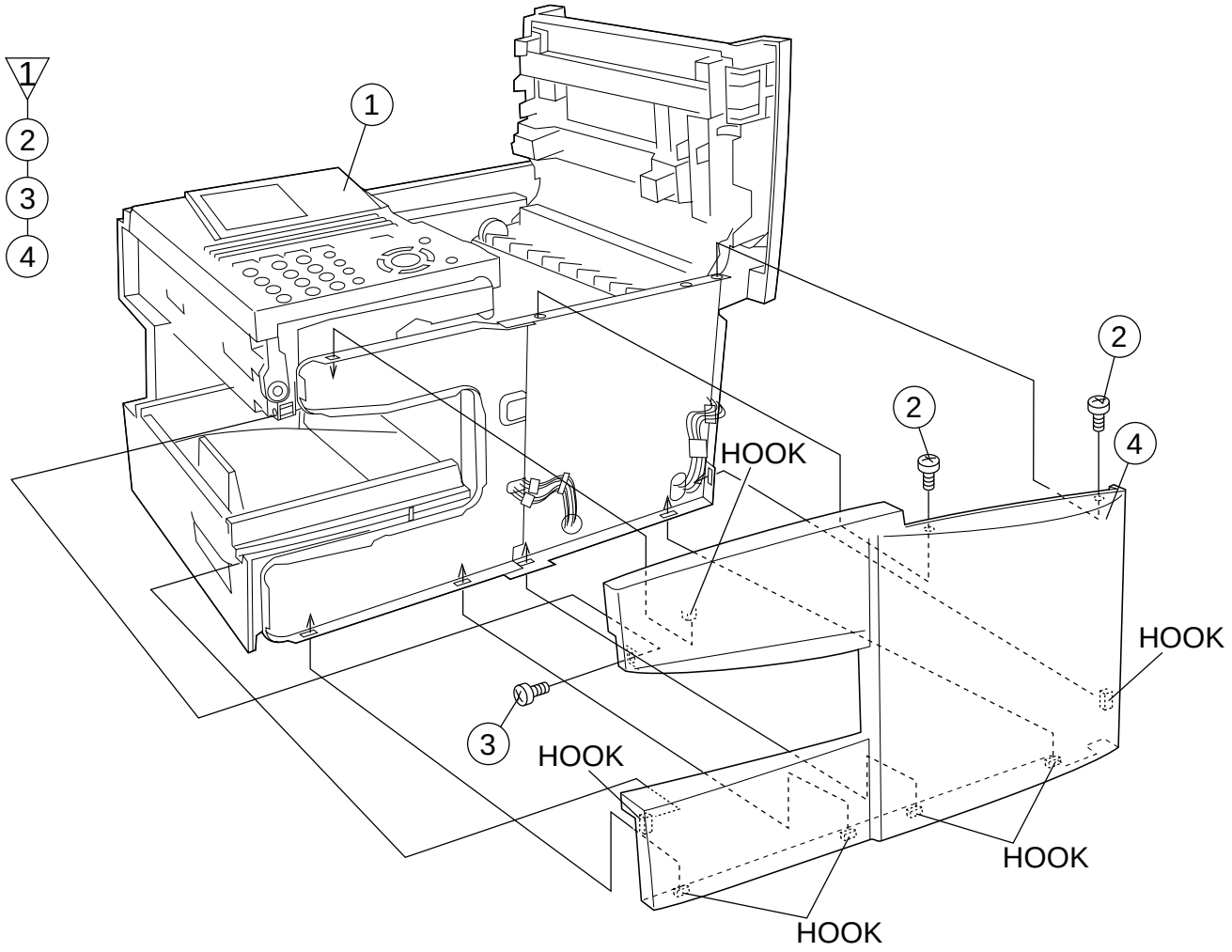


Fig. 3

4	**PWB unit**

Parts list (Fig. 4)

No.	Part name	Qty
1	Main unit	1
2	Screw (3×6)	7
3	Screw (3×10)	1
4	Connector	21
5	LIU PWB unit	1
6	Control PWB unit	1
7	Printer PWB unit	1

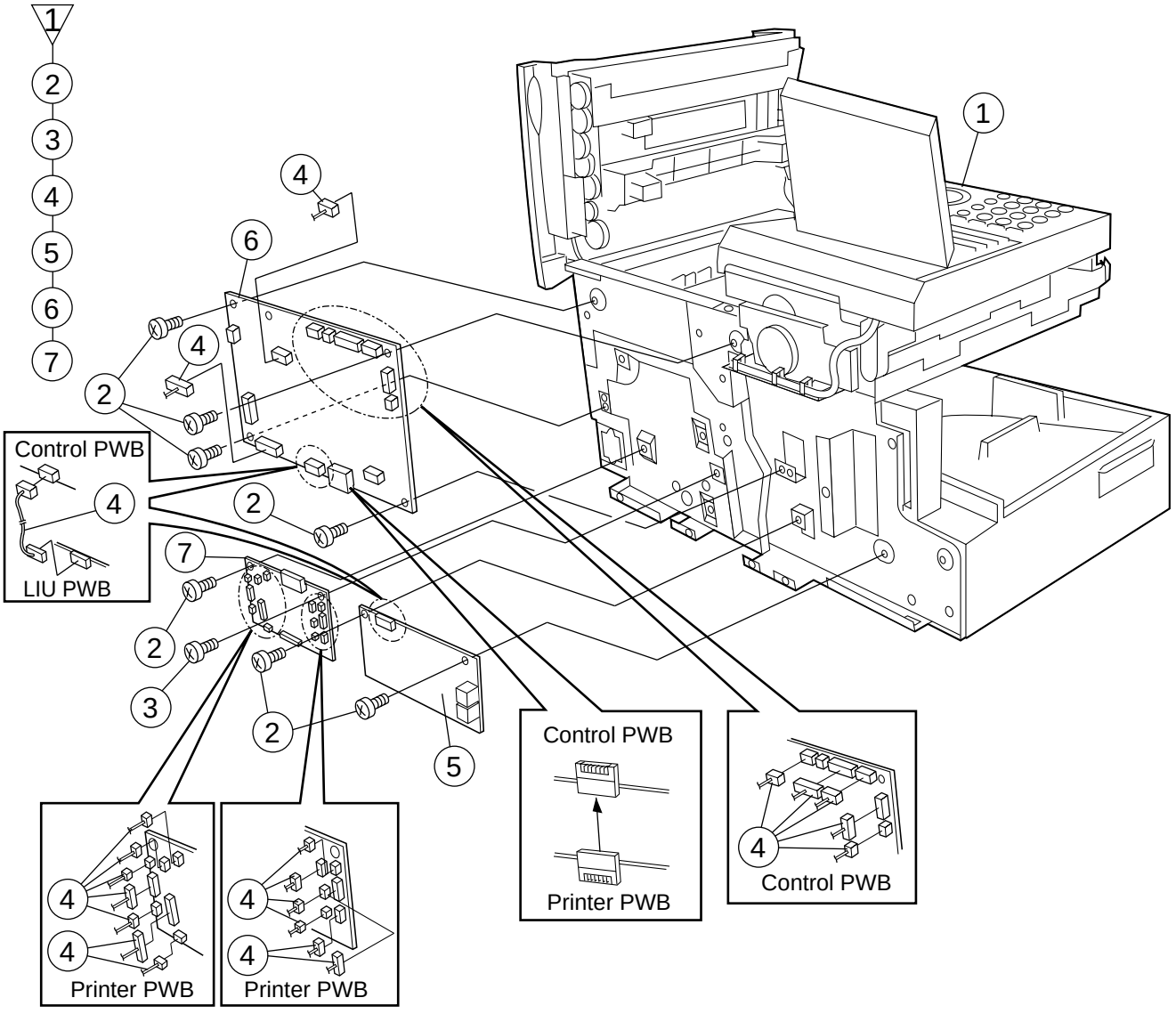
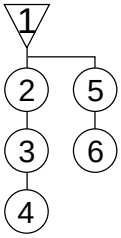


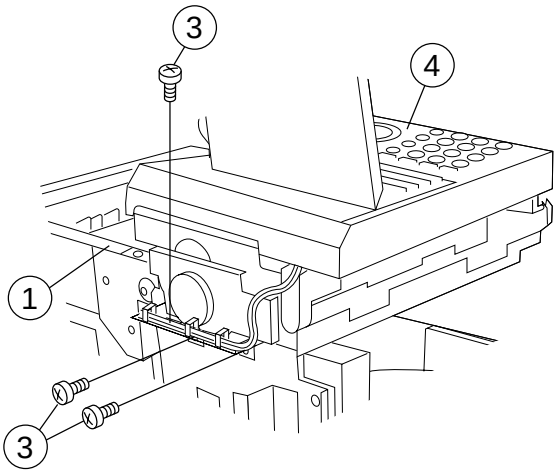
Fig. 4

5 Operation panel unit, Upper cover unit

Parts list (Fig. 5)

No.	Part name	Qty
1	Main unit	1
2	Screw (3×10)	1
3	Screw (3×6)	6
4	Operation panel unit	1
5	Screw (3×8)	1
6	Upper cover unit	1





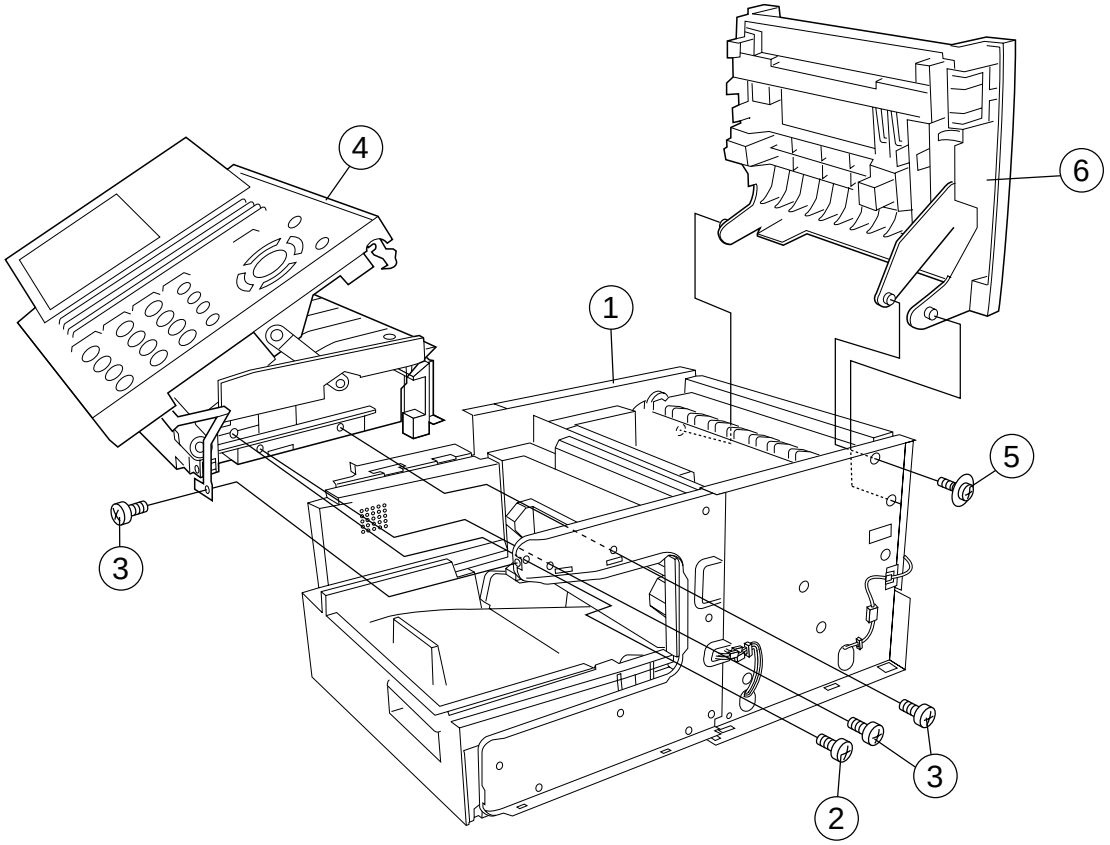


Fig. 5

6 Front left frame, Paper feed tray

Parts list (Fig. 6)

No.	Part name	Qty	No.	Part name	Qty
1	Main unit	1	11	Screw (3×6)	1
2	Screw (3×6)	5	12	Paper feed tray unit	1
3	Screw (3×10)	2	13	Screw (3×10)	1
4	Screw (3×6)	1	14	Tray width guide, front	1
5	Front left frame	1	15	Screw (3×10)	1
6	Screw (3×10)	2	16	Tray width guide, rear	1
7	Speaker holder plate spring	1	17	Connector	2
8	Speaker ass'y	1	18	Sensor	2
9	Inner front cabinet	1	19	Paper feed tray	1
10	Screw (3×10)	2			

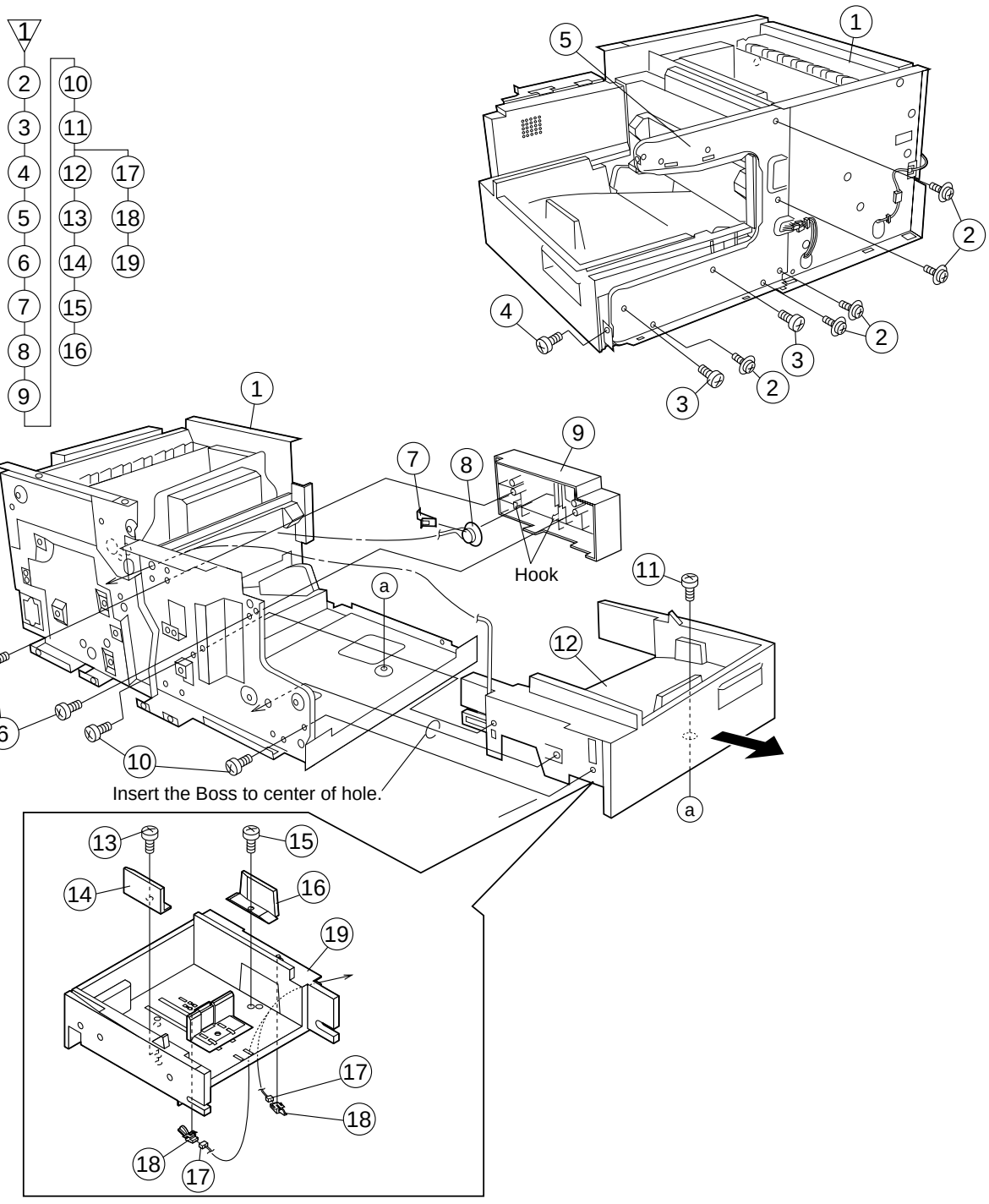


Fig. 6

7 Rear left frame, Bottom left frame

Parts list (Fig. 7)

No.	Part name	Qty
1	Main unit	1
2	Screw (3×6)	7
3	Rear left frame	1
4	Screw (3×6)	1
5	Bottom left frame	1

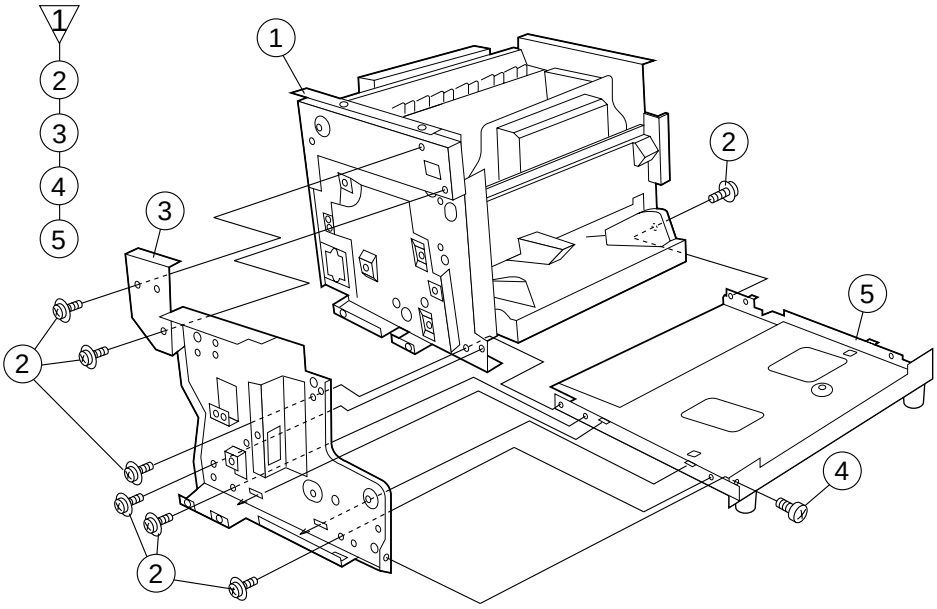


Fig. 7

8 Inner left cabinet unit

Parts list (Fig. 8)

No.	Part name	Qty
1	Main unit	1
2	Screw (3×8)	4
3	Inner left cabinet unit	1

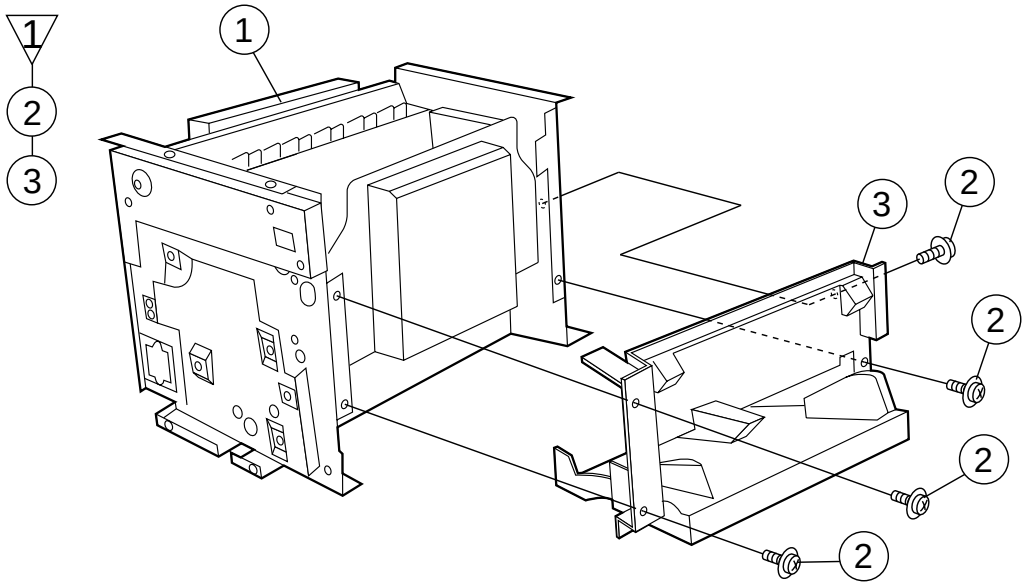


Fig. 8

9	**Power supply PWB**

Parts list (Fig. 9)

No.	Part name	Qty
1	Main unit	1
2	Screw (3×6)	3
3	Connector	4
4	Power supply PWB unit	1
5	Screw (3×6)	3
6	Screw (4×6)	1
7	Power supply PWB plate	1
8	Power supply PWB	1

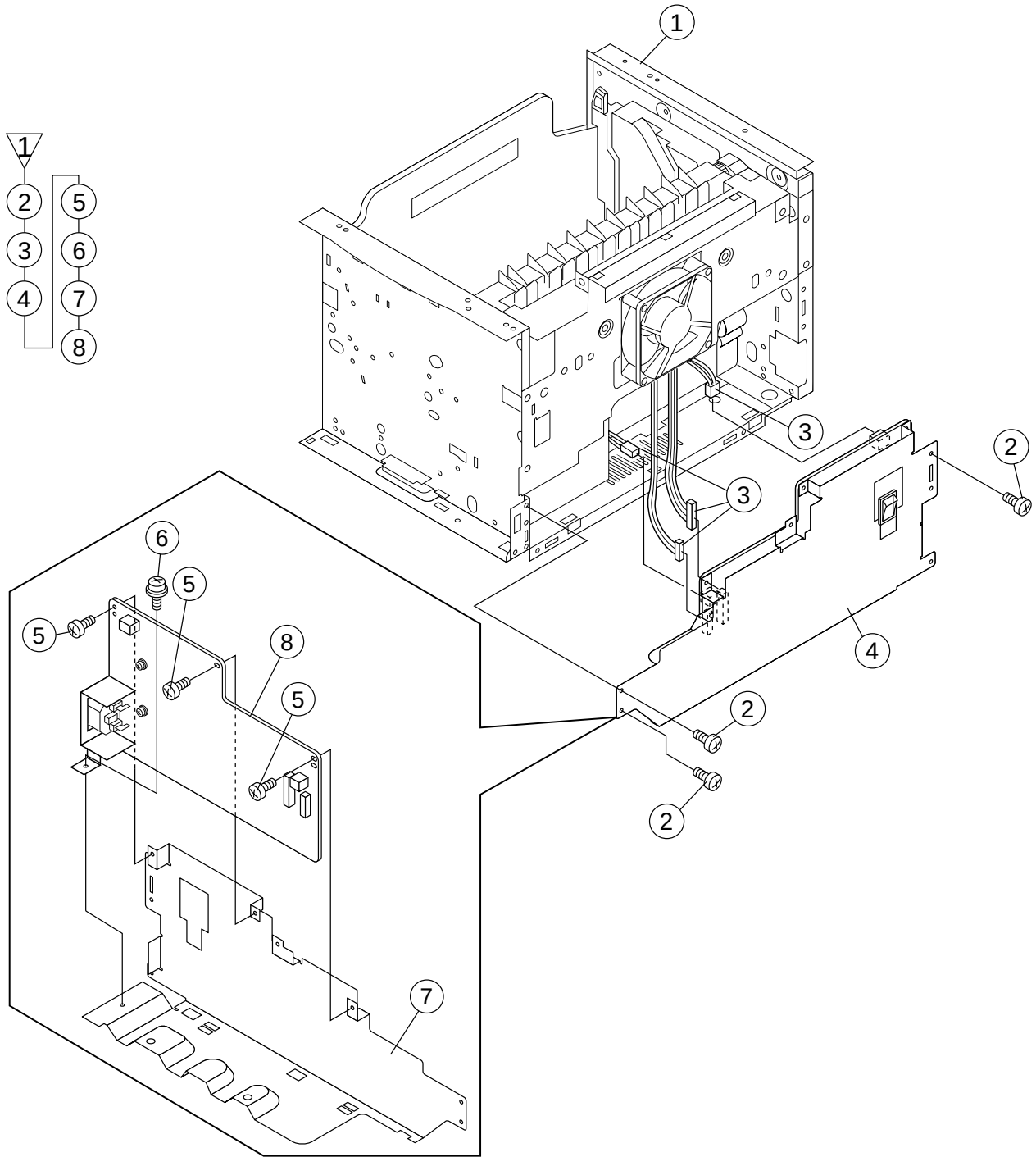


Fig. 9

10 Scanner frame unit (1/2)

Parts list (Fig. 10)

No.	Part name	Qty
1	Scanner frame unit	1
2	Screw (3×8)	1
3	Operation panel unit	1
4	Screw (3×10)	5
5	Screw (3×10)	2
6	Document guide upper	1
7	Stopper	1
8	Left upper cabinet	1

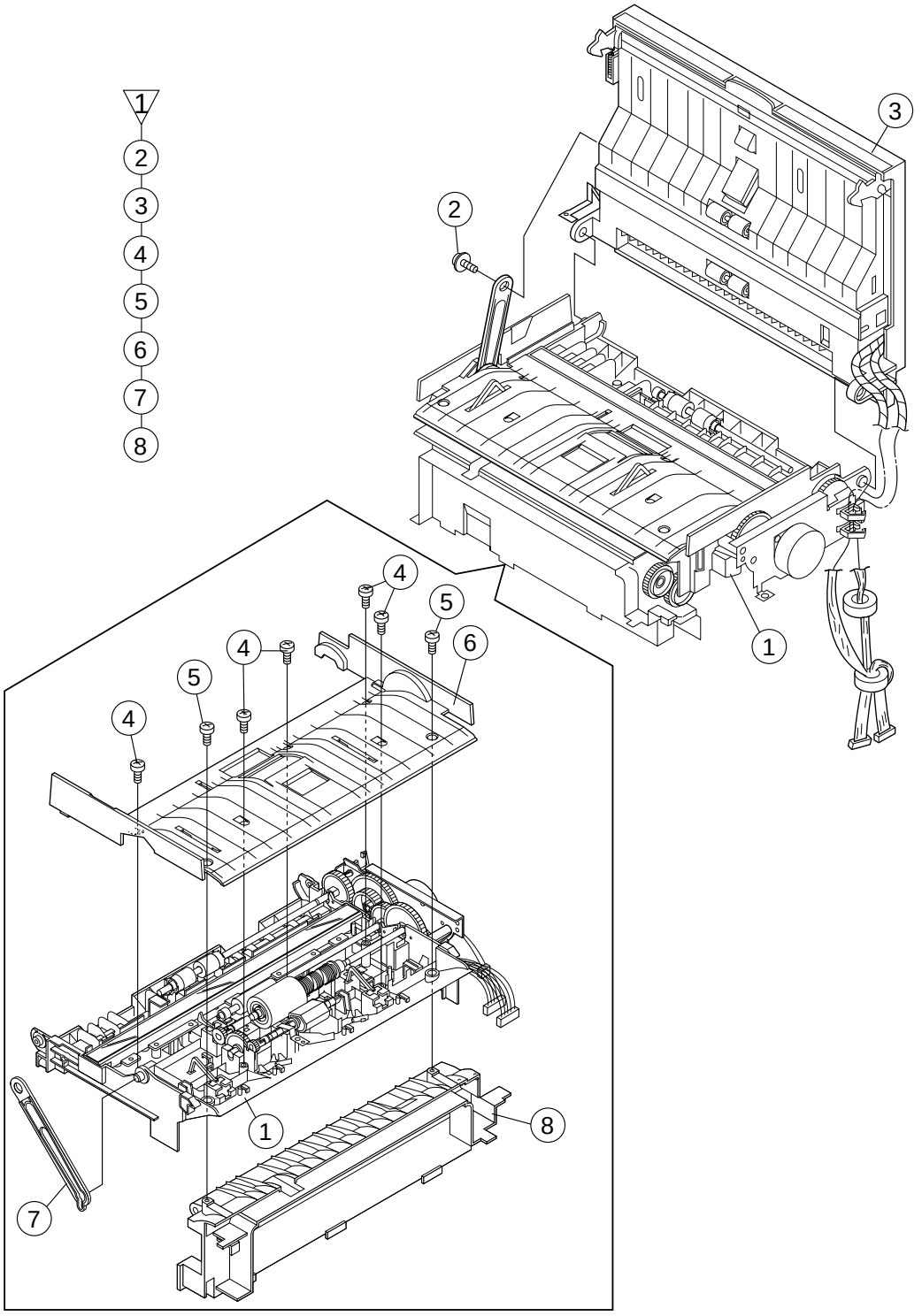


Fig. 10

11 Scanner frame unit (2/2)

Parts list (Fig. 11)

No.	Part name	Qty	No.	Part name	Qty	No.	Part name	Qty
1	Scanner frame unit	1	15	Scanner feed shaft 2	1	29	Screw (3×6)	1
2	Transfer bearing	2	16	Screw (3×10)	1	30	Screw (3×10)	1
3	Feed gear (49z)	2	17	Stopper spring	1	31	SD2 earth spring	1
4	DR bearing	2	18	Transfer idler gear	1	32	Verification stamp (FO-45VS)	1
5	Scanner drive roller 2	1	19	Screw (3×10)	3	33	Document sensor switch	1
6	Scanner drive roller 1	1	20	Drive unit	1	34	Transfer sensor switch	1
7	Scanner bearing 1	2	21	Transfer roller	1	35	Front sensor switch	1
8	Feed gear (73z)	1	22	ADF transfer gear	1	36	B4 Front sensor switch	1
9	Bearing	1	23	CIS unit	1	37	Document sensor cable	1
10	Scanner feed shaft 1	1	24	CIS cable	1	38	Pinch roller spring	2
11	Scanner feed clutch	1	25	Core	1	39	PO pinch roller	2
12	Scanner feed roller	1	26	CIS spring	2	40	Screw (3×10)	2
13	E type ring (5mm)	1	27	Screw (3×6)	1	41	Scanner support plate	1
14	ADF feed gear	1	28	FD1 earth spring	1	42	Paper earth brush	1
						43	Screw (3×10)	2
						44	Anti curl piece	2

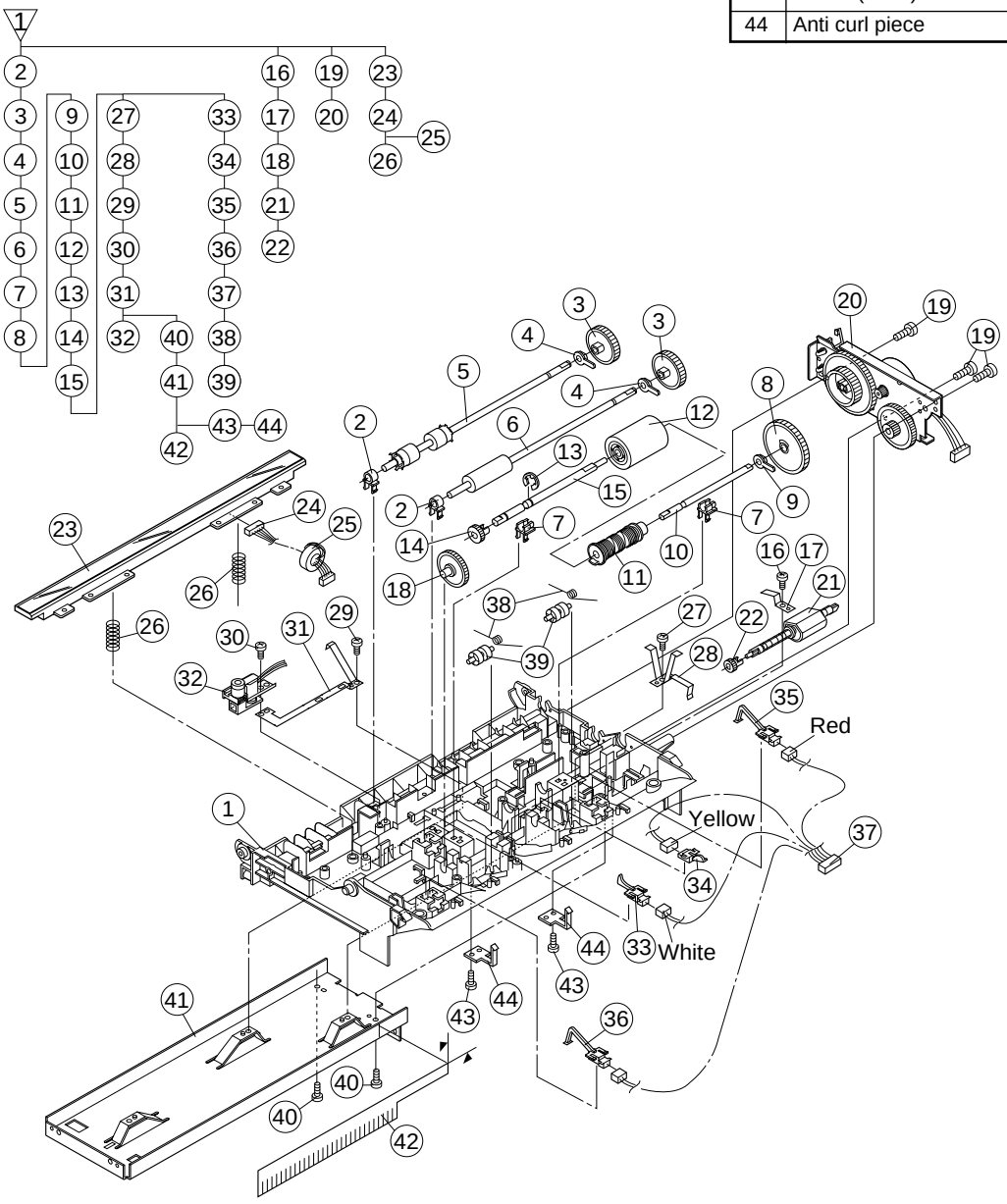


Fig. 11

12 Document guide upper unit, Operation panel unit

Parts list (Fig. 12)

No.	Part name	Qty	No.	Part name	Qty	No.	Part name	Qty
1	Operation panel unit	1	16	Transfer plate piece	1	31	Panel cable	1
2	Screw (3×10)	3	17	Input pressure spring	1	32	Operation panel PWB unit	1
3	Document guide upper unit	1	18	Back sheet	1	33	LCD cable	1
4	Release lever	1	19	Paper brush	1	34	LCD Relay PWB unit	1
5	Release lever spring	1	20	Back guide	1	35	Contrast/e-mail key	1
6	Screw (3×10)	2	21	Back bracket	1	36	Resolution/ON LINE key	1
7	Document upper plate	1	22	Document guide upper	1	37	Direct key	1
8	Brush earth spring	1	23	Screw (3x10)	1	38	10 key	1
9	Separate spring	1	24	LCD support plate	1	39	Start key	1
10	Pinch roller spring 2	4	25	LED Flat cable	1	40	Menu key	1
11	Pinch roller shaft	2	26	LCD Flat cable	1	41	Copy key	1
12	Pinch roller	4	27	Backlight cable	1	42	Stop key	1
13	Separate plate	1	28	LCD panel unit	1	43	Page plate	1
14	Separate gum	1	29	Screw (2×8)	10	44	Operation panel case	1
15	Separate sheet	1	30	Switch cover plate	1			

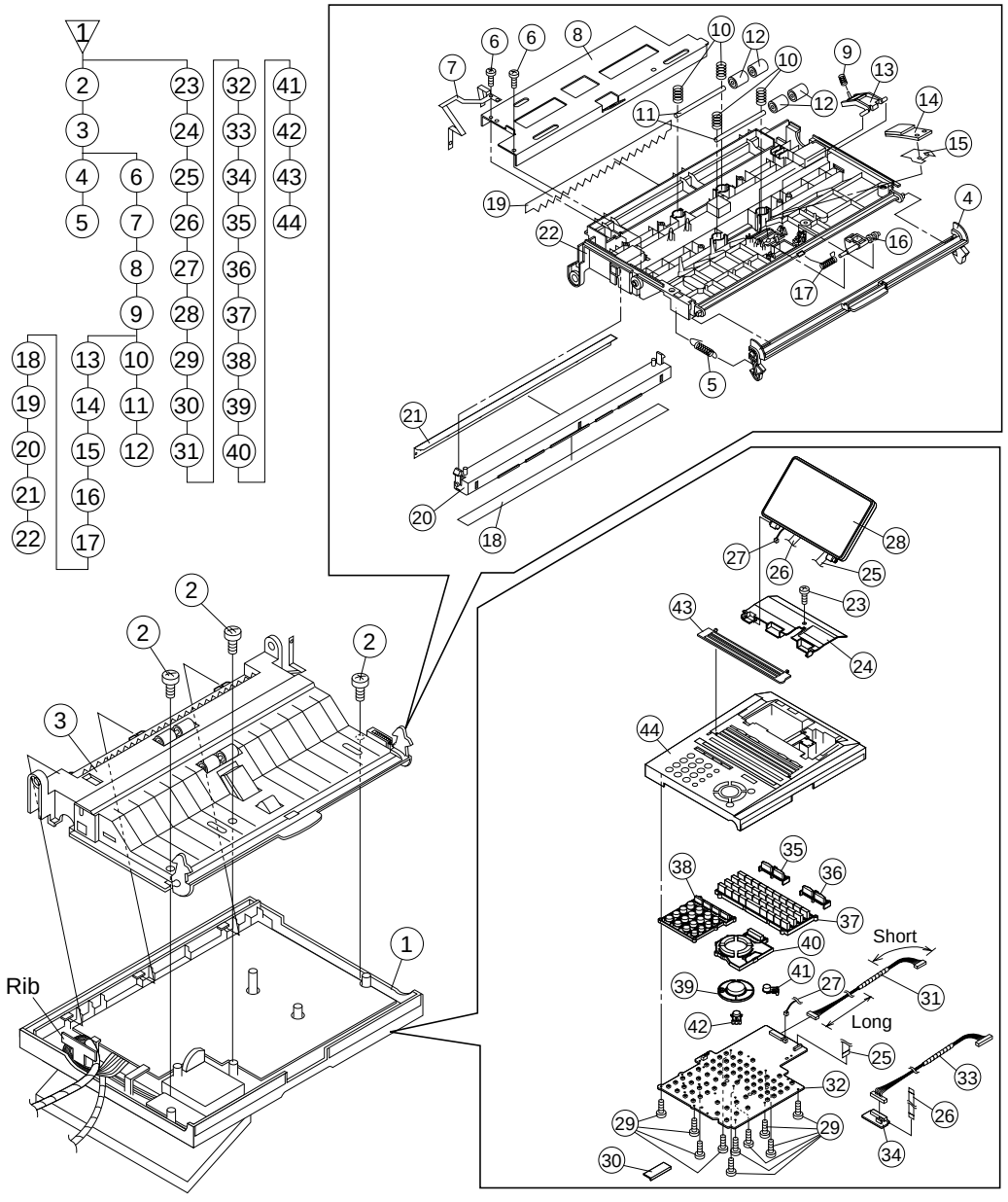


Fig. 12

13 Upper cover

Parts list (Fig. 13)

No.	Part name	Qty	No.	Part name	Qty
1	Screw (3×10)	5	13	Upper cover gear plate spring	1
2	Screw (3×8)	2			
3	Upper cover lock spring	1	14	Drum cartridge press spring	2
4	Upper cover lock nail	1	15	Paper exit guide, under	1
5	Drum cartridge detect lever spring	1	16	Paper exit guide, upper	1
			17	Pinch roller ass'y	2
6	Drum cartridge detect lever	1	18	Screw (3×8)	1
7	Shutter lever	1	19	Pinion gear	1
8	Idler gear (32z)	5	20	Hopper spring	1
9	Upper cover roller	1	21	Upper cover lock button	1
10	Idler gear 2 (17Z)	1	22	Hopper guide, left	1
11	Idler gear 1 (50Z)	1	23	Hopper guide, right	1
12	Upper cover gear plate	1	24	Upper cover	1

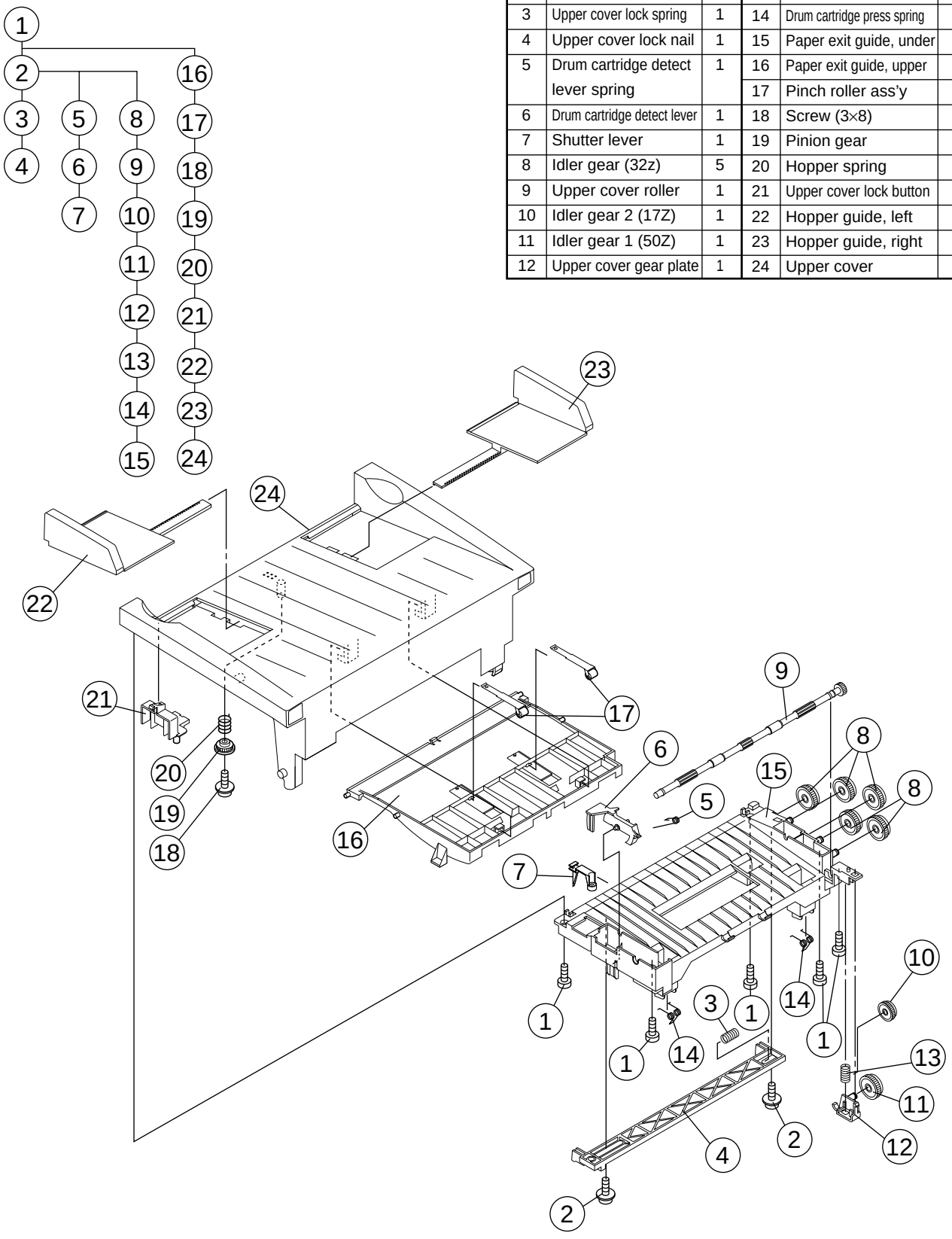


Fig. 13

14 Wire treatment

Parts list (Fig. 14)

No.	Part name	Qty
1	Band (100mm)	6
2	Core (F2125)	2
3	Core (F2124)	3
4	Band	1
5	Screw (3x10)	1

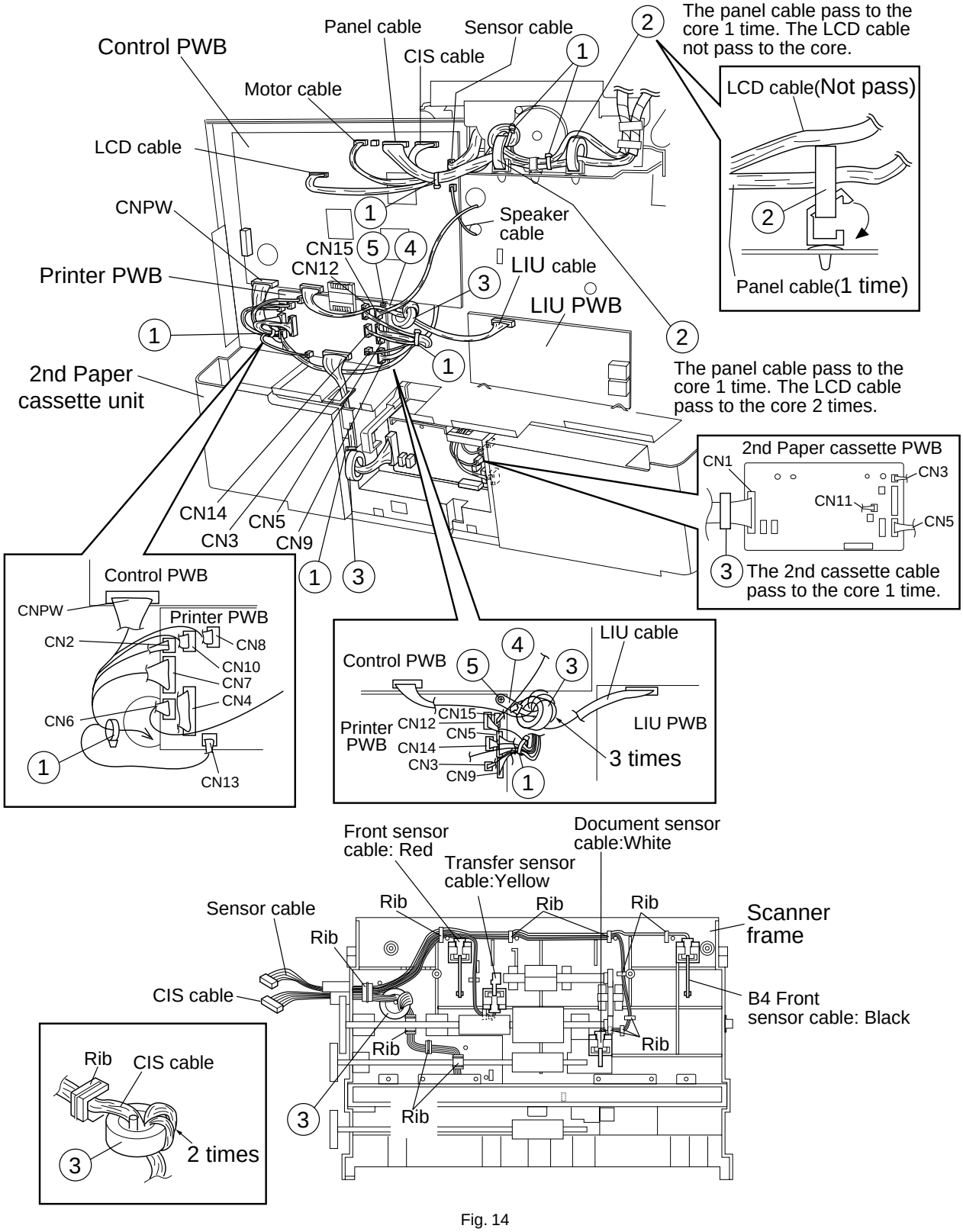


Fig. 14

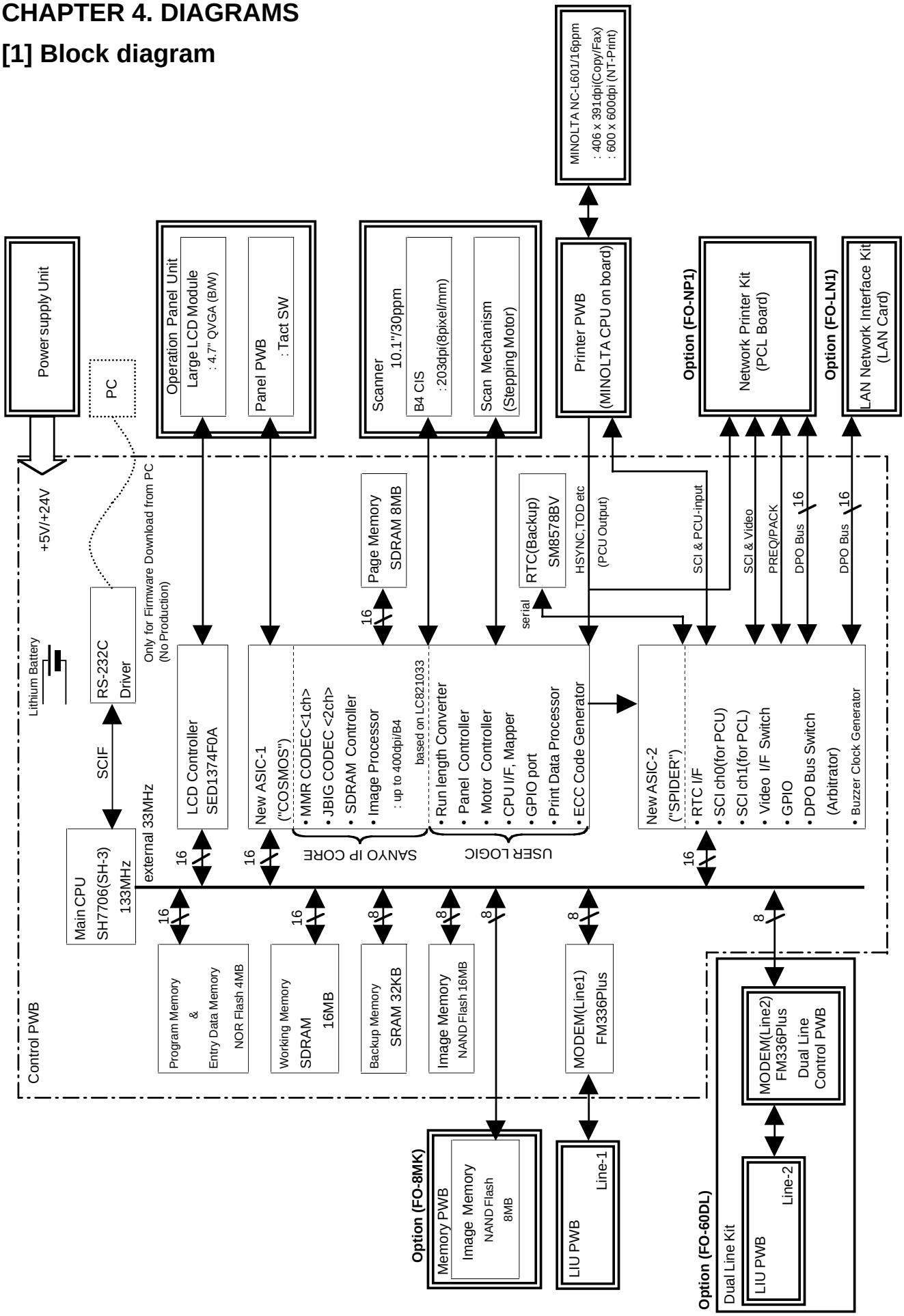
15	High voltage PWB unit (HV1)	Refer to the service manual of FO-DC500U.
16	Main motor (M1)	
17	Paper take-up roller	
18	Print head unit (PH)	
19	Paper empty sensor (PE1)	
20	Fusing unit (1/2)	
21	Fusing unit (2/2)	

[4] How to install the verification stamp (FO-45VS)

Refer to the service manual of FO-4400U.

CHAPTER 4. DIAGRAMS

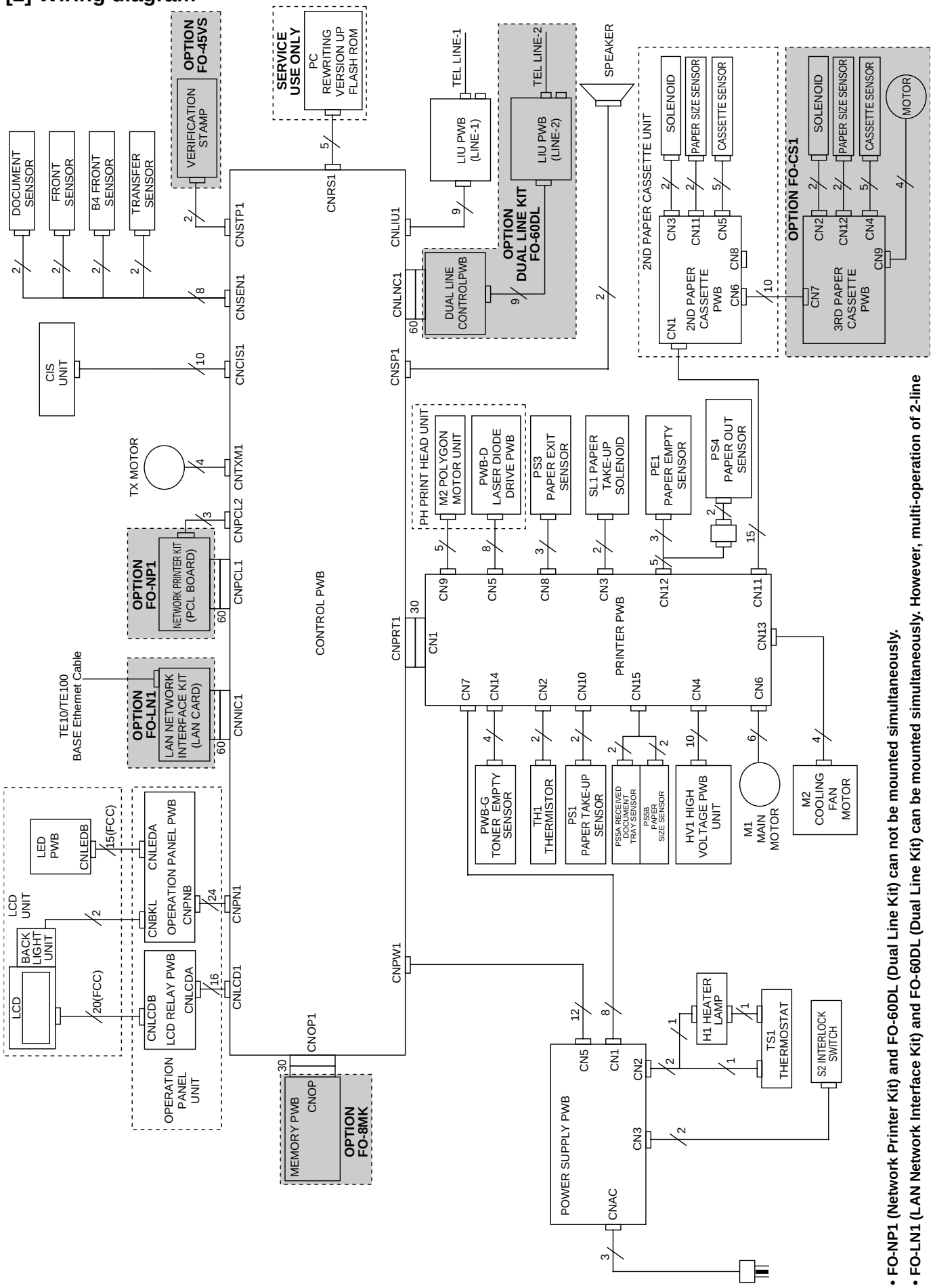
[1] Block diagram



• FO-NP1 (Network Printer Kit) and FO-60DL (Dual Line Kit) can not be mounted simultaneously.

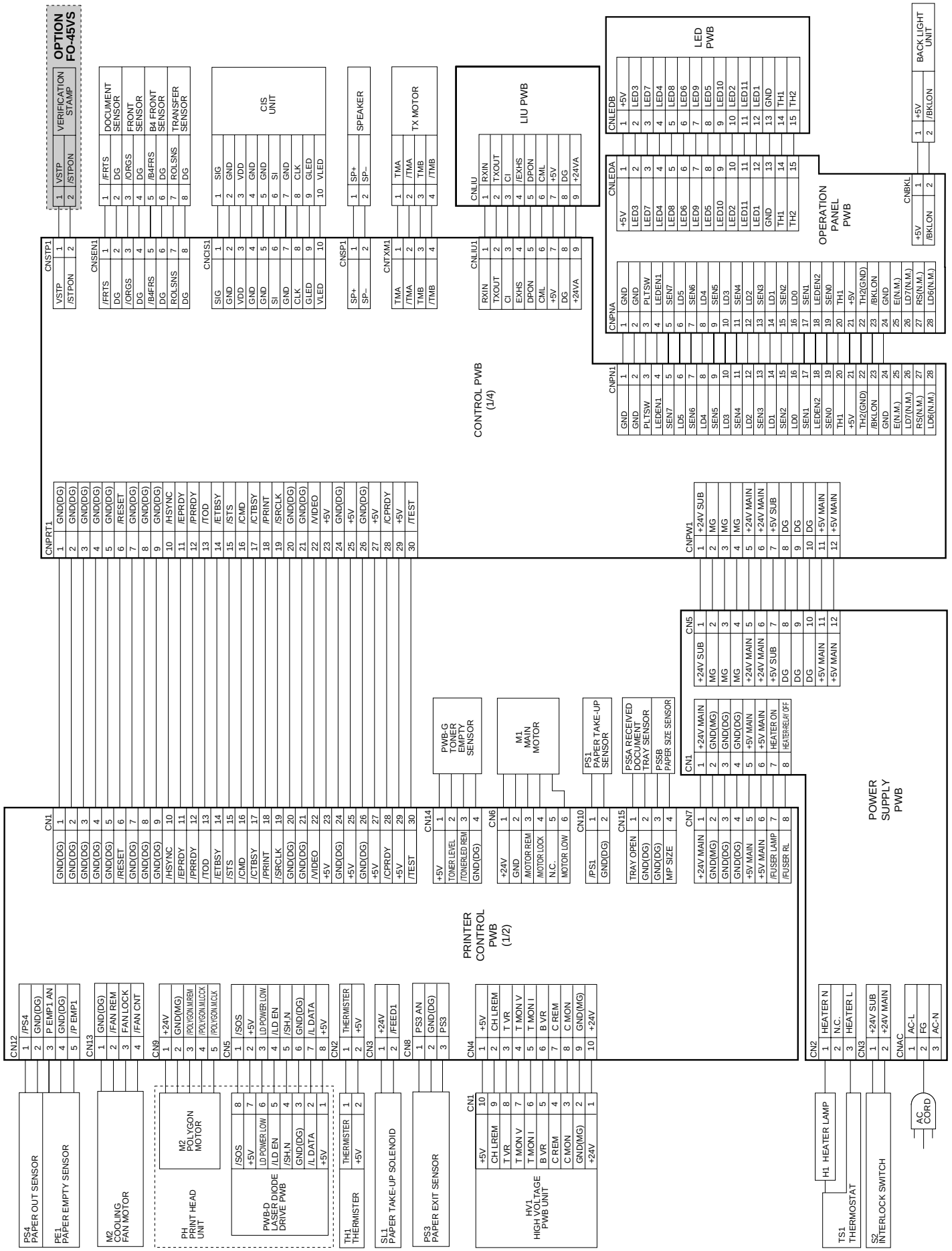
• FO-LN1 (LAN Network Interface Kit) and FO-60DL (Dual Line Kit) can be mounted simultaneously. However, multi-operation of 2-line communication and network scan is not possible.

[2] Wiring diagram

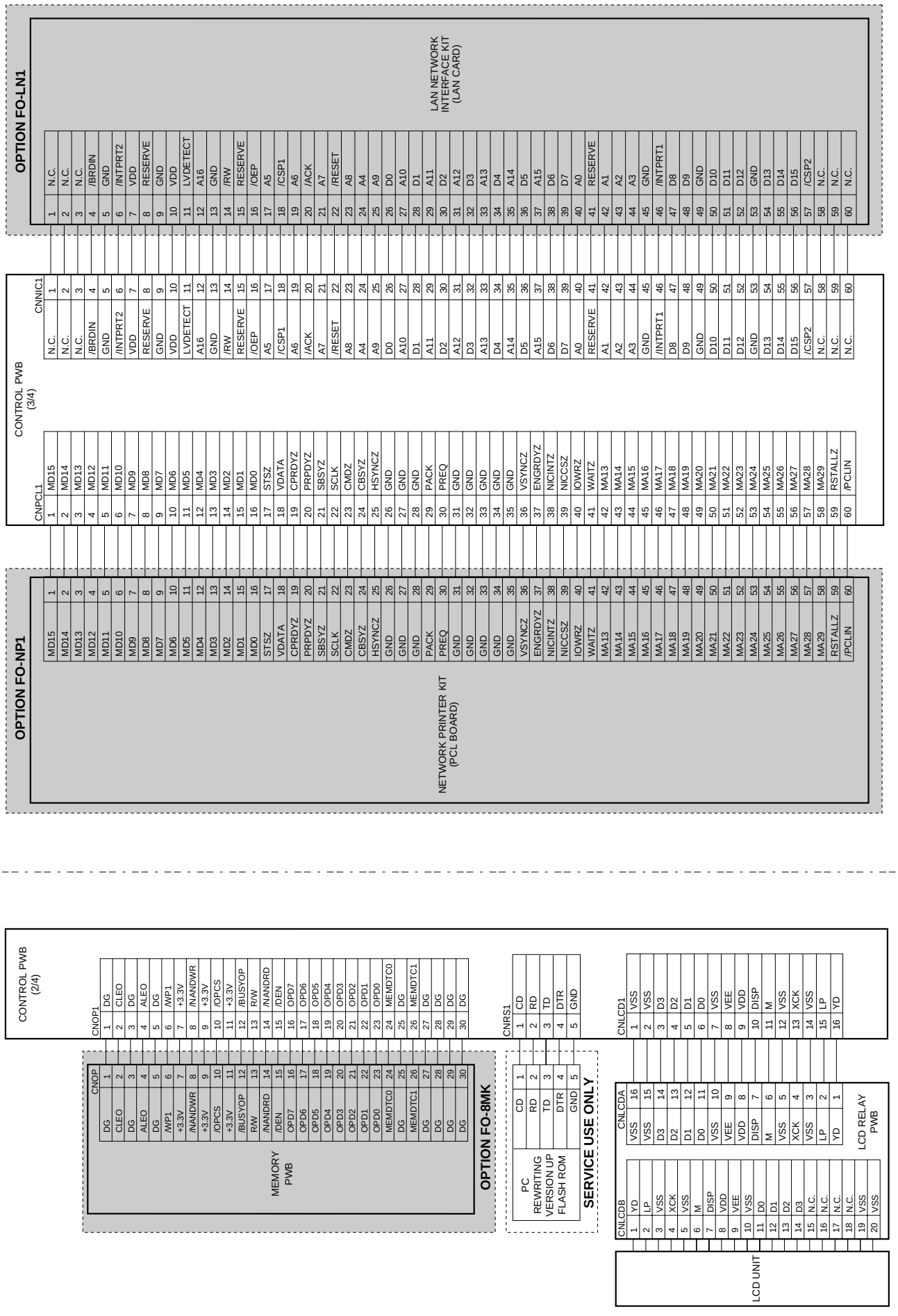


- **FO-NP1 (Network Printer Kit) and FO-60DL (Dual Line Kit) can not be mounted simultaneously.**
- **FO-LN1 (LAN Network Interface Kit) and FO-60DL (Dual Line Kit) can be mounted simultaneously. However, multi-operation of 2-line communication and network scan is not possible.**

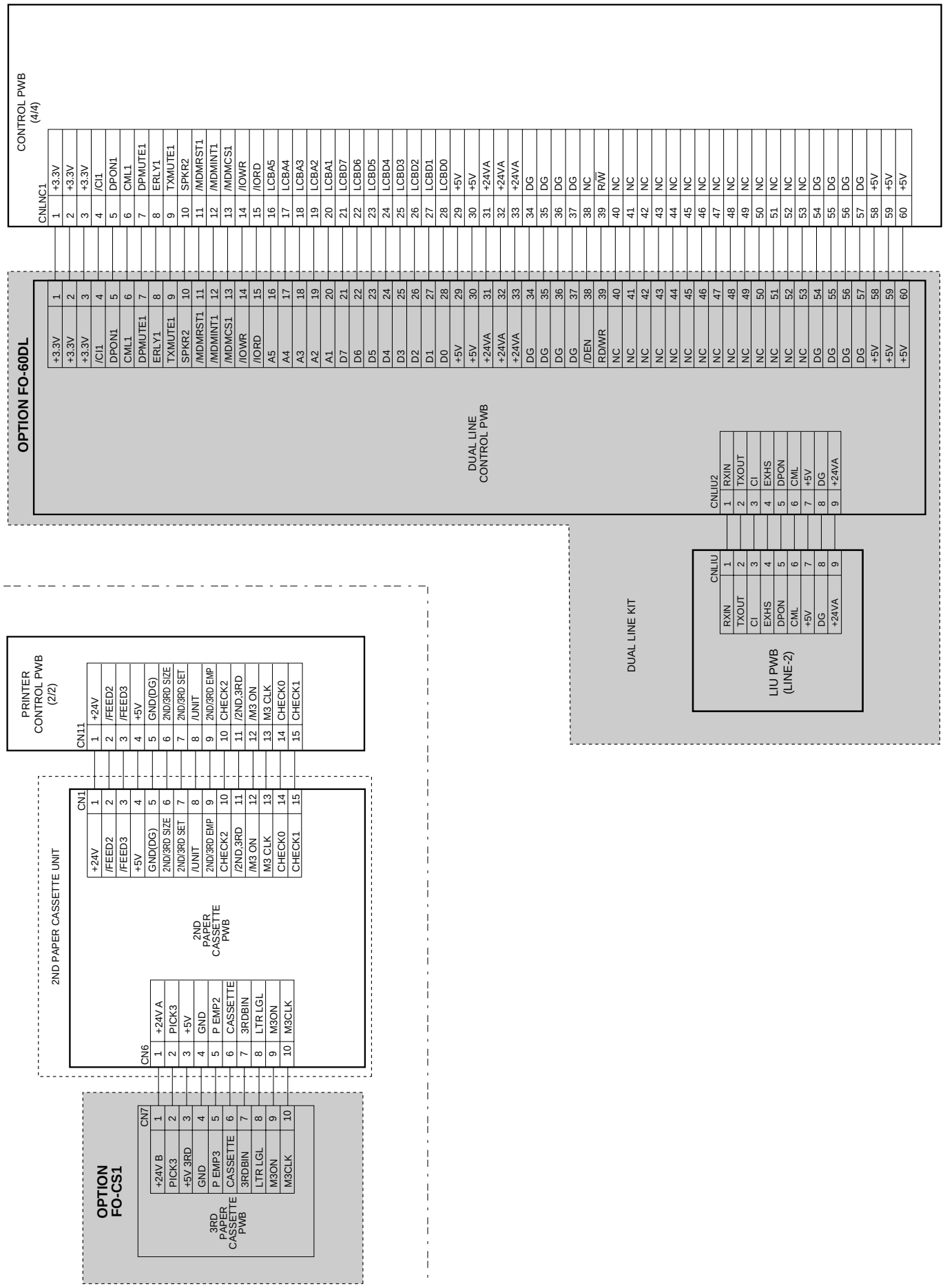
[3] Point- to-point diagram and connector signal name (1)



Point- to-point diagram and connector signal name (2)



Point- to-point diagram and connector signal name (3)



CHAPTER 5. CIRCUIT DESCRIPTION

[1] Circuit description

1. General description

In this machine, the facsimile control block except the printer control is mainly composed of the units shown in Fig. 1.

2. PWB configuration

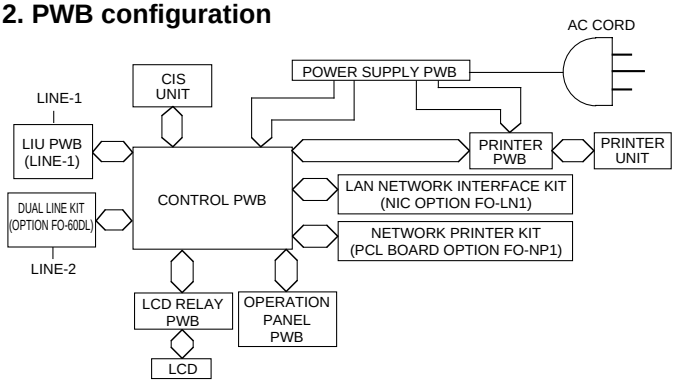


Fig. 1

1) Control PWB

The control PWB controls all the other operations except the printing operation of the printer.

2) CIS unit

CIS UNIT converts the image of the sending or copying draft into the photoelectric signals and transmits the signals to the control PWB.

3) LIU PWB

The LIU PWB controls the I/F telephone function of the circuit with the control signals from the control PWB.

4) Operation panel PWB

The operation panel PWB detects the key input, turns on and off LED and displays LCD according to the control signals from the control PWB.

5) Power supply PWB

DC voltages (+5V, +24V) are produced from AC120V, and are supplied to the printer unit and control PWB unit.

6) Dual Line Kit (FO-60DL)

Dual Line Kit consists of Dual Line Control PWB and LIU PWB (Line-2), and controls line I/F for Line-2 and FAX communications.

[2] Circuit description of control PWB

1. General description

The control PWB is composed of the following blocks.

(1) Main control block

(2) Backup memory block

(3) Modem block

(4) Scanner control block

(5) Speaker amplifier

(6) Page memory block

(7) Drive block

(8) LCD control block

(9) Network I/F block

2. Description of each block

(1) Main control block

This block consists of 32 bit RISC microcomputer HD6417706F133 (main component), flash ROM, 128 Mb SDRAM, Main ASIC, Sub ASIC, etc. Each device is controlled either by the microcomputer directly or via Main ASIC.

1) HD6417706F133 (IC24): pin-176, QFP (main CPU)

This is a microcomputer with a core of 32 bit RISC (Reduced Instructions Set Computer) CPU, which periphery functions are integrated into. This device is equipped with the following function. The clock inputs 33.1776 MHz from outside and operates at 4-times frequency (approx. 133 MHz) internally.

Feature

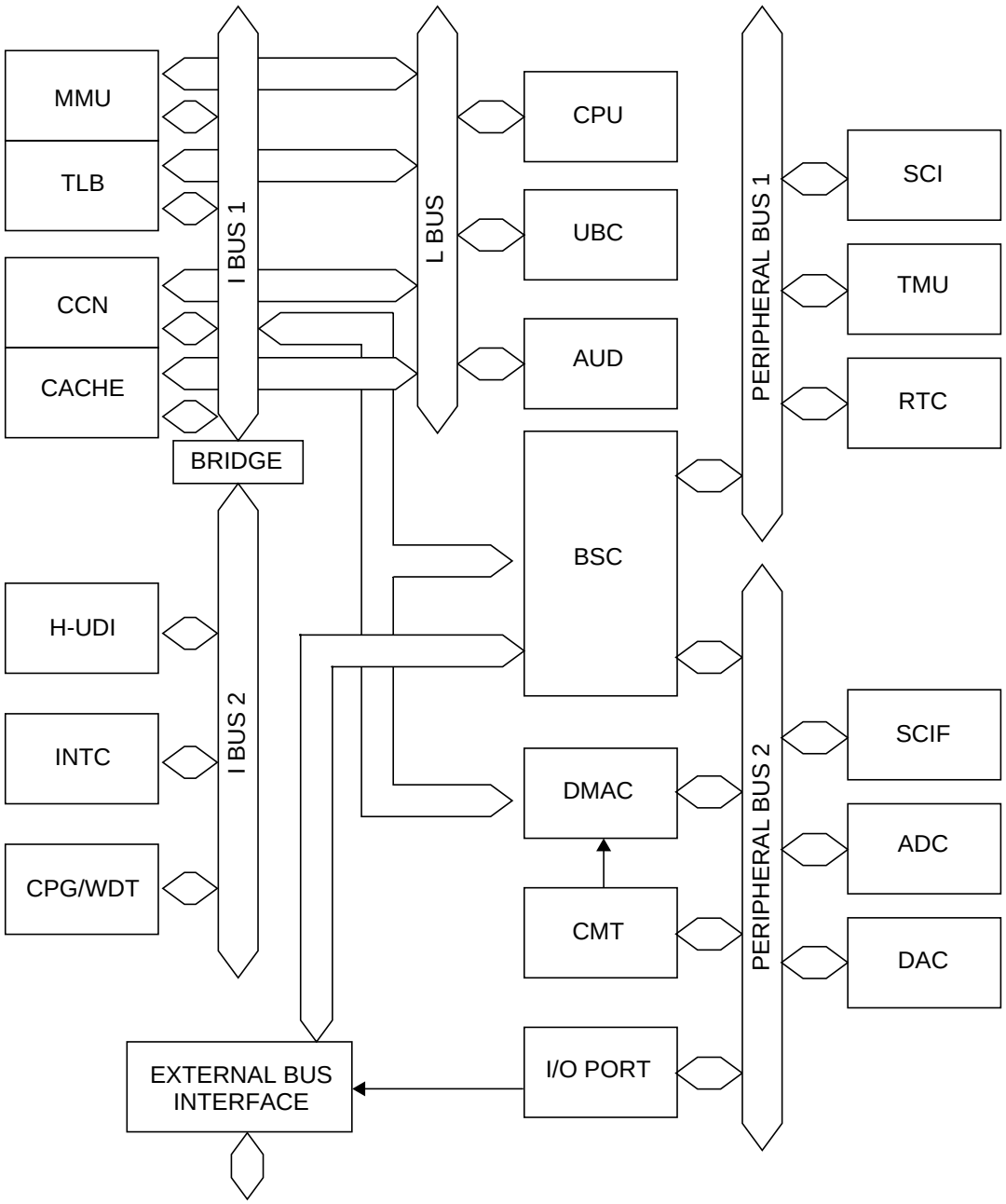
· Original Hitachi SuperH architecture
· Object code level compatible with SH-1, SH-2 and SH-3
· 32-bit RISC-type instruction set
  — Instruction length: 16-bit fixed length
  — Improved code efficiency
  — Load-store architecture
  — Delayed branch instructions
  — Instruction set oriented for C language
· Five-stage pipeline
· Instruction execution time: one instruction/cycle for basic instructions
· General-register: Sixteen 32-bit general registers
· Control-register: Eight 32-bit control registers
· System-register: Four 32-bit system registers
· 32-bit internal data bus
· Logical address space: 4 Gbytes
· Space indentifier ASID: 8 bits, 256 logical address space
· Abundant Peripheral Functions
  — Memory Management Unit (MMU)
  — User Break Controller (UBC)
  — Bus state Controller (BSC)
  — Direct Memory Access Controller (DMAC)
  — Clock Pulse Generator (CPG)
  — Watchdog Timer (WDT)
  — Timer Unit (TMU)
  — Realtime Clock (RTC)
  — Serial Communication Interface (SCI)
  — Smartcard Interface
  — Serial Communication Interface with FIFO (SCIF)
  — 10-bit A/D converter (ADC)
  — 8-bit D/A converter (DAC)
  — Hitachi User Debugging Interface (H-UDI)
  — Advanced User Debugger (AUD)

2) LH28F320BFHE-PBTLZA (IC12): pin-48, TSOP (32 Mb FLASH MEMORY)

This is a flash memory writing program and is also used for the registration data, such as telephone directory.
32 Mb area is divided into 2 for every 16 Mb; the lower-order and higher-order address sides are used for the program and for the registration data, respectively.

3) MT48LC8M16A2TG or W981216BH (IC25): pin-54, TSOP (128 Mb SDRAM)

The program stored in the flash memory (IC12) mentioned in the above item 2) is downloaded to this SDRAM and used as a program execution memory. It is also used as various work memories and communication buffers. The devices manufactured by 2 enterprises are acknowledged. (Former model No.: manufactured by WINBOND, later model No.: manufactured by MICRON)



Legend:

ADC:	A/D converter
AUD:	Advanced user debugger
BSC:	Bus state controller
CACHE:	Cache memory
CCN:	Cache memory controller
CMT:	Compare match timer
CPG/WDT:	Clock pulse generator/watchdog timer
CPU:	Central processing unit
DAC:	D/A converter
DMAC:	Direct memory access controller
H-UDI:	Hitachi user-debugging interface
INTC:	Interrupt controller
MMU:	Memory management unit
RTC:	Realtime clock
SCI:	Serial communication interface (with smart card interface)
SCIF:	Serial communication interface (with FIFO)
TLB:	Address translation buffer
TMU:	Timer unit
UBC:	User break controller

Fig. 2 HD6417706F133 BLOCK DIAGRAM

HD6417706F133 (IC24) Terminal description (1/2)

PIN	I/O	Name	Function	PIN	I/O	Name	Function
1	—	Vcc-RTC*1	RTC power supply (1.9 V)	52	O	A5	Address bus
2	O	XTAL2	On-chip RTC crystal oscillator pin	53	O	A6	Address bus
3	I	EXTAL2	On-chip RTC crystal oscillator pin	54	O	A7	Address bus
4	—	Vss-RTC*1	RTC power supply (0 V)	55	O	A8	Address bus
5	I/O	D31/PTB[7]	Data bus/input/output port B	56	O	A9	Address bus
6	I/O	D30/PTB[6]	Data bus/input/output port B	57	O	A10	Address bus
7	I/O	D29/PTB[5]	Data bus/input/output port B	58	O	A11	Address bus
8	I/O	D28/PTB[4]	Data bus/input/output port B	59	O	A12	Address bus
9	I/O	D27/PTB[3]	Data bus/input/output port B	60	O	A13	Address bus
10	I/O	D26/PTB[2]	Data bus/input/output port B	61	—	VssQ	Input/output power supply (0 V)
11	—	VssQ	Input/output power supply (0 V)	62	O	A14	Address bus
12	I/O	D25/PTB[1]	Data bus/input/output port B	63	—	VccQ	Input/output power supply (3.3 V)
13	—	VccQ	Input/output power supply (3.3 V)	64	O	A15	Address bus
14	I/O	D24/PTB[0]	Data bus/input/output port B	65	O	A16	Address bus
15	I/O	D23/PTA[7]	Data bus/input/output port A	66	O	A17	Address bus
16	I/O	D22/PTA[6]	Data bus/input/output port A	67	O	A18	Address bus
17	I/O	D21/PTA[5]	Data bus/input/output port A	68	O	A19	Address bus
18	I/O	D20/PTA[4]	Data bus/input/output port A	69	O	A20	Address bus
19	—	Vss	Internal power supply (0 V)	70	O	A21	Address bus
20	I/O	D19/PTA[3]	Data bus/input/output port A	71	—	Vss	Internal power supply (0 V)
21	—	Vcc	Internal power supply (1.9 V)	72	O	A22	Address bus
22	I/O	D18/PTA[2]	Data bus/input/output port A	73	—	Vcc	Internal power supply (1.9 V)
23	I/O	D17/PTA[1]	Data bus/input/output port A	74	O	A23	Address bus
24	I/O	D16/PTA[0]	Data bus/input/output port A	75	O	A24	Address bus
25	—	VssQ	Input/output power supply (0 V)	76	O	A25	Address bus
26	I/O	D15	Data bus	77	O/ I/O	BS-/PTC[0]	Bus cycle start signal/ input/output port C
27	—	VccQ	Input/output power supply (3.3 V)	78	O	RD-	Read strobe
28	I/O	D14	Data bus	79	O	WE-/DQMLL-	D7-D0 select signal/ DQM (SDRAM)
29	I/O	D13	Data bus	80	O	WE1-/DQMLU-/WE-	D15-D8 select signal/DQM (SDRAM)/write strobe (PCMCIA)
30	I/O	D12	Data bus	81	O/O/O/I/O	WE2-/DQMUL-/ICIORD/PTC[1]	D23-D16 select signal/DQM (SDRAM)/PCMCIA
31	I/O	D11	Data bus				input/output read/ input/output port C
32	I/O	D10	Data bus	82	O/O/O/I/O	WE2-/DQMUU-/ICIOWR/PTC[2]	D31-D24 select signal/DQM (SDRAM)/PCMCIA
33	I/O	D9	Data bus				input/output write/ input/output port C
34	I/O	D8	Data bus	83	O	RD/WR-	Read/write
35	I/O	D7	Data bus	84	—	VssQ	Input/output power supply (0 V)
36	I/O	D6	Data bus	85	O	CS0-	Chip select
37	—	VssQ	Input/output power supply (0 V)	86	—	VccQ	Input/output power supply (3.3 V)
38	I/O	D5	Data bus	87	O /I/O	CS2-/PTC[3]	Chip select 2/input/output port C
39	—	VccQ	Input/output power supply (3.3 V)	88	O /I/O	CS3-/PTC[4]	Chip select 3/input/output port C
40	I/O	D4	Data bus	89	O /I/O	CS4-/PTC[5]	Chip select 4/input/output port C
41	I/O	D3	Data bus	90	O/O/I/O	CS5-/CE1A/PTC[6]	Chip select 5/CE1 (area 5 PCMCIA)/input/output port C
42	I/O	D2	Data bus	91	O/O/I/O	CS6-/CE1B/PTC[7]	Chip select 6/CE1 (area 6 PCMCIA)/input/output port C
43	I/O	D1	Data bus	92	O/ I/O	CE2A-/PTD[6]	Area 5 PCMCIA CE2/ input/output port D
44	I/O	D0	Data bus	93	—	VssQ	Input/output power supply (0 V)
45	O	A0	Address bus	94	O/ I/O	CE2B-/PTD[7]	Area 6 PCMCIA CE2/ input/output port D
46	O	A1	Address bus	95	—	VccQ	Input/output power supply (3.3 V)
47	O	A2	Address bus	96	O/ I/O	RASL-/PTD[0]	Lower 32 Mbytes address RAS(SDRAM)/input output port D
48	O	A3	Address bus	97	O/ I/O	RASU-/PTD[1]	Upper 32 Mbytes address RAS(SDRAM)/input output port D
49	—	VssQ	Input/output power supply (0 V)	98	O/ I/O	CASL-/PTD[2]	Lower 32 Mbytes address CAS(SDRAM)/input output port D
50	O	A4	Address bus	99	O/ I/O	CASU-/PTD[3]	Upper 32 Mbytes address CAS(SDRAM)/input output port D
51	—	VccQ	Input/output power supply (3.3 V)	100	O/ I/O	CKE/PTD[4]	CK enable(SDRAM)/input/output port D

HD6417706F133 (IC24) Terminal description (2/2)

PIN	I/O	Name	Function	PIN	I/O	Name	Function
101	I/I/O	IOIS16-/PTD[5]	IOIS16(PCMCIA)/input port D	139	—	VccQ	Input/output power supply (3.3 V)
102	O	BACK-	Bus acknowledge	140	O	TxD0/SCPT[0]	SCI transmit data 0/SC port
103	I	BREQ-	Bus request	141	I/O	SCK0/SCPT[1]	SCI clock 0/SC port
104	i	WAIT-	Hardware wait request	142	O	TxD2/SCPT[2]	SCIF transmit data 2/SC port
105	O/I/O	DACK0/PTE[0]	DMA acknowledge 0/input/output port E	143	I/O	SCK2/SCP[3]	SCIF clock 2/SC port
106	O/I/O	DACK1/PTE[1]	DMA acknowledge 1/input/output port E	144	O/I/O	RTS2-/SCPT[4]	SCIF transmit request 2/SC port
107	O/I/O	DRAK0/PTE[2]	DMA request acknowledge/input/output port E	145	I	RxD0/SCPT[0]	SCI receive data 0/SC port
108	O/I/O	DRAK1/PTE[3]	DMA request acknowledge/input/output port E	146	I	RxD2/SCPT[2]	SCIF receive data 2/SC port
109	I/O	AUDATA[0]/PTF[0]	AUD data/ input/output port F	147	I	CTS2-/IRQ5/SCPT[5]	SCIF transmit clear/external interruption request/SC port
110	I/O	AUDATA[1]/PTF[1]	AUD data/ input/output port F	148	—	Vss	Internal power supply (0 V)
111	I/O	AUDATA[2]/PTF[2]	AUD data/ input/output port F	149	I	RESETM-	Manual reset request
112	I/O	AUDATA[3]/PTF[3]	AUD data/ input/output port F	150	—	Vcc	Internal power supply (1.9 V)
113	O/I/O	AUDSYNC-/PTF[4]	AUD synchronous/ input/output port F	151	I/I/I/O	IRQ0/IRL0-/PTH[0]	External interrupt request/input/output port H
114	I	TDI/PTG[0]	Data input(H-UDI)/input port G	152	I/I/I/O	IRQ1/IRL1-/PTH[1]	External interrupt request/input/output port H
115	—	Vss	Internal power supply (0 V)	153	I/I/I/O	IRQ2/IRL2-/PTH[2]	External interrupt request/input/output port H
116	I	TCK/PTG[1]	Clock(H-UDI)/input port G	154	I/I/I/O	IRQ3/IRL3-/PTH[3]	External interrupt request/input/output port H
117	—	Vcc	Internal power supply (1.9 V)	155	I/I/O	IRQ4/PTH[4]	External interrupt request/input/output port H
118	I	TMS/PTG[2]	Mode select(H-UDI)/input port G	156	—	VssQ	Input/output power supply (0 V)
119	I	TRST-/PTG[3]	Reset(H-UDI)/input port G	157	I	NMI	Nonmaskable interrupt request
120	O/I/O	TDO/PTF[5]	Data output(H-UDI)/input/output port F	158	—	VccQ	Input/output power supply (3.3 V)
121	O/I/O	ASEBRKAK-/PTF[6]	ASE break acknowledge(H-UDI)/input/output port F	159	I	AUDCK/PTG[4]	AUD clock/input port G
122	I	ASEMD0-*3	ASE mode(H-UDI)	160	I/I/O	DREQ0-/PTH[5]	DMA request/input/output port H
123	—	Vcc-PLL1*2	PLL1 power supply (1.9 V)	161	I/I/O	DREQ1-/PTH[6]	DMA request/input/output port H
124	—	CAP1	PLL1 external capacitance pin	162	I	ADTRG-/PTG[5]	Analog trigger/input port G
125	—	Vss-PLL1*2	PLL1 power supply (0 V)	163	I	MD0	Clock mode setting
126	—	Vss-PLL2*2	PLL2 power supply (0 V)	164	I	MD2	Clock mode setting
127	—	CAP2	PLL2 external capacitance pin	165	I	RESETP-	Power-on reset request
128	—	Vcc-PLL2*2	PLL2 power supply (1.9 V)	166	I	CA	Chip activate/hardware standby request
129	I	MD1	Clock mode setting	167	I	MD3	Area 0 bus width setting
130	—	Vss	Internal power supply (0 V)	168	I	MD4	Area 0 bus width setting
131	O	XTAL	Clock oscillator pin	169	I	MD5	Endian setting
132	I	EXTAL	External clock/crystal oscillator pin	170	—	AVss	Analog power supply (0 V)
133	O/I/O	STATUS0/PTE[4]	Processor status/input/output port E	171	I	AN[0]/PTJ[0]	A/D converter input/input port J
134	O/I/O	STATUS1/PTE[5]	Processor status/input/output port E	172	I	AN[1]/PTJ[1]	A/D converter input/input port J
135	I/O	TCLK/PTE[6]	TMU or RTC clock input/output/input/output port E	173	I/O/I	AN2[2]/DA[1]/PTJ[2]	A/D converter input/ D/A converter output/ input port J
136	O/I/O	IRQOUT-/PTE[7]	Interrupt request notification/output/input/output port E	174	I/O/I	AN3[3]/DA[0]/PTJ[3]	A/D converter input/ D/A converter output/ input port J
137	—	VssQ	Input/output power supply (0 V)	175	—	AVcc	Analog power supply (3.3 V)
138	I/O	CKIO	System clock input/output	176	—	AVss	Analog power supply (0 V)

Notes: *1 Must be connected to the power supply even when the RTC is not used.

*2 Must be connected to the power supply even when the on-chip PLL circuits are not used.(EXcept in hardware standby mode.)

*3 Must be high level when the user system is used independently without using the emulator or H-UDI.

1. Except in hardware standby mode, all Vcc/Vss pins must be connected to the system power supply. (Supply power constantly.) In hardware standby mode, power must be supplied at least to Vcc-RTC and Vss-RTC. If power is not supplied to Vcc and Vss pins other than Vcc-RTC and Vss-RTC, hold the CA pin low.
2. A1, A2, A3, A7, A12, B1, C4, C7, D1, D2, D4, D7, D14, D15, E1, E2, E3, E4, F14, F17, G17, H14, H15, K14, P14, R10, T13, T15, T16, U11, U15, and U16 must be connected to Vss.

4) LC272D0BT-WA6 (IC6): pin-216, QFP (MAIN ASIC)

The device is the embed-array, which has the following functions.

① CPU interface

The block has the following functions.
That is, mapping executed in memory areas CS0 and CS4, that are generated by main CPU (SH-3), and then wait control and access control to the peripheral devices.

② NOR type flash memory interface

The block has control the protections to each block of a NOR flash memory. The NOR flash memory is used as two provided blocks; programming memory block and the entry and history data block.

③ NAND type flash memory interface

The block has the following functions. That is, access control to flash memory (standard setting memory and optional setting memory), and generates ECC code at accessing NAND flash memory.

④ DMA request control

The block has the following functions. That is, generate the two internal DMA requests; read request from FIFO buffer for encodes and write request from FIFO buffer for decodes. And set each request to the DMA request channels, ch0 and ch1 by setting register.

⑤ Interrupt request control

The block has the following functions. That is, encode interrupt request signal code by each generated interrupt priority level. And then at the each interrupt, set priority level, mask and clear interrupt factor.

⑥ CIS control and image processing

The block has the following functions. That is control the CIS and A/D converts the scanning image data from analogue to digital, and executes the converted image data processing.

⑦ Print image processing and output printing data

The block has the following functions. That is, converts the image data for printing into 400dpi, and applies smoothing processing. And then, output the printing data, according to /HSYNC signal from PCU.

⑧ CODEC

The block has the following functions. The One, the encoding from the image data (bit map data) in the page memory to the code data (MMR/MH) in the system memory. The other, the decoding from the code data (MMR/MH) in system memory to the image data (bit map data) in the page memory.

⑨ Page memory (SDRAM) interface

SDRAM is used as Page memory. The block has the controller of SDRAM and the arbiter of the accesses to SDRAM.

⑩ Scanner motor control

The block has the following function. That is, controls the PWM current control type stepping motor driver that uses a bipolar drive scheme.

⑪ Panel/LCD control

The block has I/O port for key sense and LCD control.

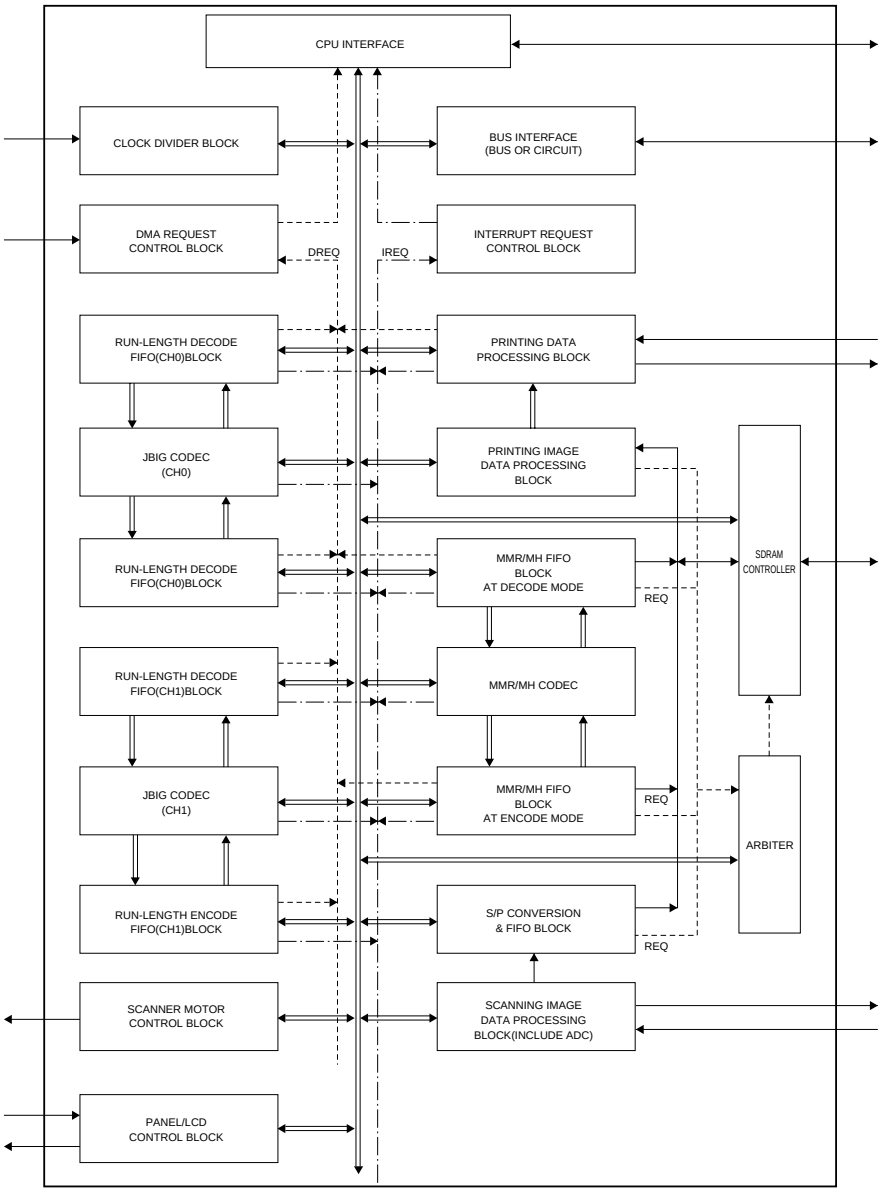


Fig. 3 LC272D0BT-WA6 BLOCK DIAGRAM

LC272D0BT-WA6 (IC6) Terminal description (1/2)

PIN	I/O	Name	Function	PIN	I/O	Name	Function
1	P	VSS	Ground	55	P	VSS	Ground
2	B	D7	Data bus	56	O	XNICACK	Acknowledge signal for NIC
3	B	D6	Data bus	57	I	XNICINT	Interrupt request from NIC board
4	B	D5	Data bus	58	O	XNICCS	Chip select (NIC Board)
5	B	D4	Data bus	59	O	XJBG1	Reserved
6	B	D3	Data bus	60	O	XJBG0	Reserved
7	B	D2	Data bus	61	B	MAD0	Data bus of page memory
8	B	D1	Data bus	62	B	MAD1	Data bus of page memory
9	B	D0	Data bus	63	P	VDD	Power supply
10	I	XCS0	Chip select (Erea 0)	64	P	VSS	Ground
11	I	XCS4	Chip select (Erea 4)	65	B	MAD2	Data bus of page memory
12	O	XDACK0	DMA acknowledge (Ch0)	66	B	MAD3	Data bus of page memory
13	O	XDACK1	DMA acknowledge (Ch1)	67	B	MAD4	Data bus of page memory
14	O	XDRAK0	DMA request acknowledge (Ch0)	68	B	MAD5	Data bus of page memory
15	O	XDRAK1	DMA request acknowledge (Ch1)	69	B	MAD6	Data bus of page memory
16	I	XDREQ0	DMA request (Ch0)	70	B	MAD7	Data bus of page memory
17	I	XDREQ1	DMA request (Ch1)	71	B	MAD8	Data bus of page memory
18	P	VDD	Power supply	72	P	VDD	Power supply
19	P	VSS	Ground	73	P	VSS	Ground
20	O	XFLCS	Chip select (Flash memory)	74	B	MAD9	Data bus of page memory
21	I	XFLSHINTA	Interrupt request of flash memory	75	B	MAD10	Data bus of page memory
22	I	XFLSHINTB	Interrupt request of flash memory	76	B	MAD11	Data bus of page memory
23	O	XINT0	Interrupt request signal	77	B	MAD12	Data bus of page memory
24	O	XINT1	Interrupt request signal	78	B	MAD13	Data bus of page memory
25	O	XINT2	Interrupt request signal	79	B	MAD14	Data bus of page memory
26	O	XINT3	Interrupt request signal	80	B	MAD15	Data bus of page memory
27	O	XPGMCS	Chip select (Program memory)	81	P	VDD	Power supply
28	O	XWROUT	Write strobe signal	82	P	VSS	Ground
29	O	XRDOUT	Read strobe signal	83	O	SDCLK	Clock of page memory
30	O	XWAIT	Wait request signal	84	O	DQMUL	Data mask of page memory
31	I	XBUSYDP	Busy signal of Dual port RAM	85	O	CKE	CK enable of page memory
32	I	XMDMINT1	Interrupt request from modem chip 1	86	O	CASB	CAS of page memory
33	I	XMDMINT0	Interrupt request from modem chip 0	87	O	RASB	RAS of page memory
34	O	XMDMCS1	Chip select (Modem Chip 1)	88	O	DWEB	Write strobe of page memory
35	O	XMDMCS0	Chip select (Modem Chip 0)	89	O	XCSDRM0	Chip select of page memory
36	P	VDD	Power supply	90	P	VDD	Power supply
37	P	VSS	Ground	91	P	VSS	Ground
38	I	XINPRT	Print block clock in	92	O	MA0	Address bus of page memory
39	O	XOUTPRT	Print block clock out	93	O	MA1	Address bus of page memory
40	P	VSS	Ground	94	O	MA2	Address bus of page memory
41	I	TODB	Top of data	95	O	MA3	Address bus of page memory
42	I	HSYNC	Synchronous signal of horizontal anxious	96	O	MA4	Address bu s of page memory
43	O	PDATA	Print data	97	O	MA5	Address bus of page memory
44	I	XJBGINT1	Reserved	98	O	MA6	Address bus of page memory
45	I	XJBGINT0	Reserved	99	P	VDD	Power supply
46	I	XSGAINT	Interrupt request from modem chip 0	100	P	VSS	Ground
47	I	XSBGA	Chip select (Sub Gate array)	101	O	MA7	Address bus of page memory
48	I	JBGDREQ00	Reserved	102	O	MA8	Address bus of page memory
49	I	JBGDREQ01	Reserved	103	O	MA9	Address bus of page memory
50	I	JBGDREQ10	Reserved	104	O	MA10	Address bus of page memory
51	I	JBGDREQ11	Reserved	105	O	MA11	Address bus of page memory
52	O	XJBGACK1	Reserved	106	O	MA12	Address bus of page memory
53	O	XJBGACK0	Reserved	107	O	MA13	Address bus of page memory
54	P	VDD	Power supply	108	P	VDD	Power supply

LC272D0BT-WA6 (IC6) Terminal description (2/2)

PIN	I/O	Name	Function	PIN	I/O	Name	Function
109	P	VSS	Ground	163	P	VSS	Ground
110	I	TEST0	Test pin 0	164	O	TXAI1	Current control 1 (Phase A)
111	I	TEST1	Test pin 1	165	O	TXAI0	Current contorl 0 (Phase A)
112	I	XINSC	Image block Clock in	166	O	CRNT0	Current change signal 0
113	O	XOUTSC	Image block Clock out	167	O	CRNT1	Current change signal 1
114	P	VSS	Ground	168	O	XLBE	Low byte(D7-D0) enable signal
115	O	TOUT	Test pin	169	I	XRESET	System Reset Signal
116	O	LININT	Monitor for line interval signal	170	O	XMANRES	Manual Reset Signal
117	O	SAMP	Monitor for sampling point	171	O	XNANDOPCS	Chip select (Optional memory)
118	O	SH	Line shift clock (CIS)	172	O	XNANDSTDCS	Chip select (Standard memory)
119	O	CLK1	Transfor clock (CIS)	173	O	XNANDRD	Read signal (Nand flash)
120	P	AVDD	Power supply (Analogue)	174	O	XNANDWR	Write signal (Nand flash)
121	P	AVSS	Analogue Ground	175	O	XWP0	Write protect (Standard)
122	I	ADREFL	Low reference voltage (ADC)	176	O	XWP1	Write protect (Optional)
123	I	TEMP	Temperature detect	177	O	ALEO	Address latch enable (Flash memory)
124	I	AVO	Video signal for scanning	178	O	CLEO	Command latch enable (Flash memory)
125	O	ATAPH	High reference voltage (ADC)	179	I	SHCK	CPU Outer bus Clock
126	P	AVDD	Power supply (Analogue)	180	P	VDD	Power supply
127	P	AVSS	Analogue Ground	181	P	VSS	Ground
128	P	VDD	Power supply	182	I	RXW	Read/Write signal
129	P	VSS	Ground	183	I	XBS	Bus cycle start signal
130	O	PLTSW	Plate SW detect	184	I	A25	Address bus bit25
131	O	BKLON	Back light on/off control	185	I	A24	Address bus bit24
132	I	SEN7	Key sense signal	186	I	A23	Address bus bit23
133	I	SEN6	Key sense signal	187	I	A22	Address bus bit22
134	I	SEN5	Key sense signal	188	I	A21	Address bus bit21
135	I	SEN4	Key sense signal	189	I	A20	Address bus bit20
136	I	SEN3	Key sense signal	190	I	A13	Address bus bit13
137	I	SEN2	Key sense signal	191	I	A12	Address bus bit12
138	I	SEN1	Key sense signal	192	I	A11	Address bus bit11
139	I	SEN0	Key sense signal	193	I	A10	Address bus bit10
140	B	LD15	LED	194	I	A9	Address bus bit9
141	B	LD14	LED	195	I	A8	Address bus bit8
142	B	LD13	LCD drive signal	196	I	A7	Address bus bit7
143	B	LD12	LCD drive signal	197	I	A6	Address bus bit6
144	P	VDD	Power supply	198	P	VDD	Power supply
145	P	VSS	Ground	199	P	VSS	Ground
146	B	LD11	Reserved	200	I	A5	Address bus bit5
147	B	LD10	Reserved	201	I	A4	Address bus bit4
148	B	LD9	Reserved	202	I	A3	Address bus bit3
149	B	LD8	Reserved	203	I	A2	Address bus bit2
150	B	LD7	LCD drive	204	I	A1	Address bus bit1
151	B	LD6	LCD drive	205	I	A0	Address bus bit0
152	B	LD5	LED/LCD drive	206	B	XWE0	D7-D0 select signal
153	B	LD4	LED/LCD drive	207	B	XOPDEN	Bus buffer enable control
154	B	LD3	Key matrix select/LED/LCD drive	208	B	D15	Data bus bit15
155	B	LD2	Key matrix select/LED/LCD drive	209	B	D14	Data bus bit14
156	B	LD1	Key matrix select/LED/LCD drive	210	B	D13	Data bus bit13
157	B	LD0	Key matrix select/LED/LCD drive	211	B	D12	Data bus bit12
158	O	TXB	Current direction (Phase B)	212	B	D11	Data bus bit11
159	O	TXBI1	Current control 1 (Phase B)	213	B	D10	Data bus bit10
160	O	TXBI0	Current control 0 (Phase B)	214	B	D9	Data bus bit9
161	O	TXA	Current direction (Phase A)	215	B	D8	Data bus bit8
162	P	VDD	Power supply	216	P	VDD	Power supply

5) LC24199B-WJ0-E (IC21): pin-208, QFP (SUB ASIC)

The device is the gate-array, which has the following functions.

① PCU (Print Control Unit) interface

The block has the serial communication to PCU, and using this circuitry, controls/detects PCU.

② I/O port

The block has the following functions; LIU interface, Speaker control and sensor detect, which are controlled with software.

③ Generator of buzzer's frequency

The block has the generated buzzer's frequency by the software.

④ RTC (Real Time Clock) LSI control

Using serial communication to RTC, the device set and read the time.

⑤ Verification stamp control

The software control on/off of the verification stamp. And the control block has hardware timer instead of the continuous stamp-on status.

⑥ Original sensor detect

The software detects the original sensor. And then the control block has the generated interrupt circuitry by detecting the sensor signal risen/fallen.

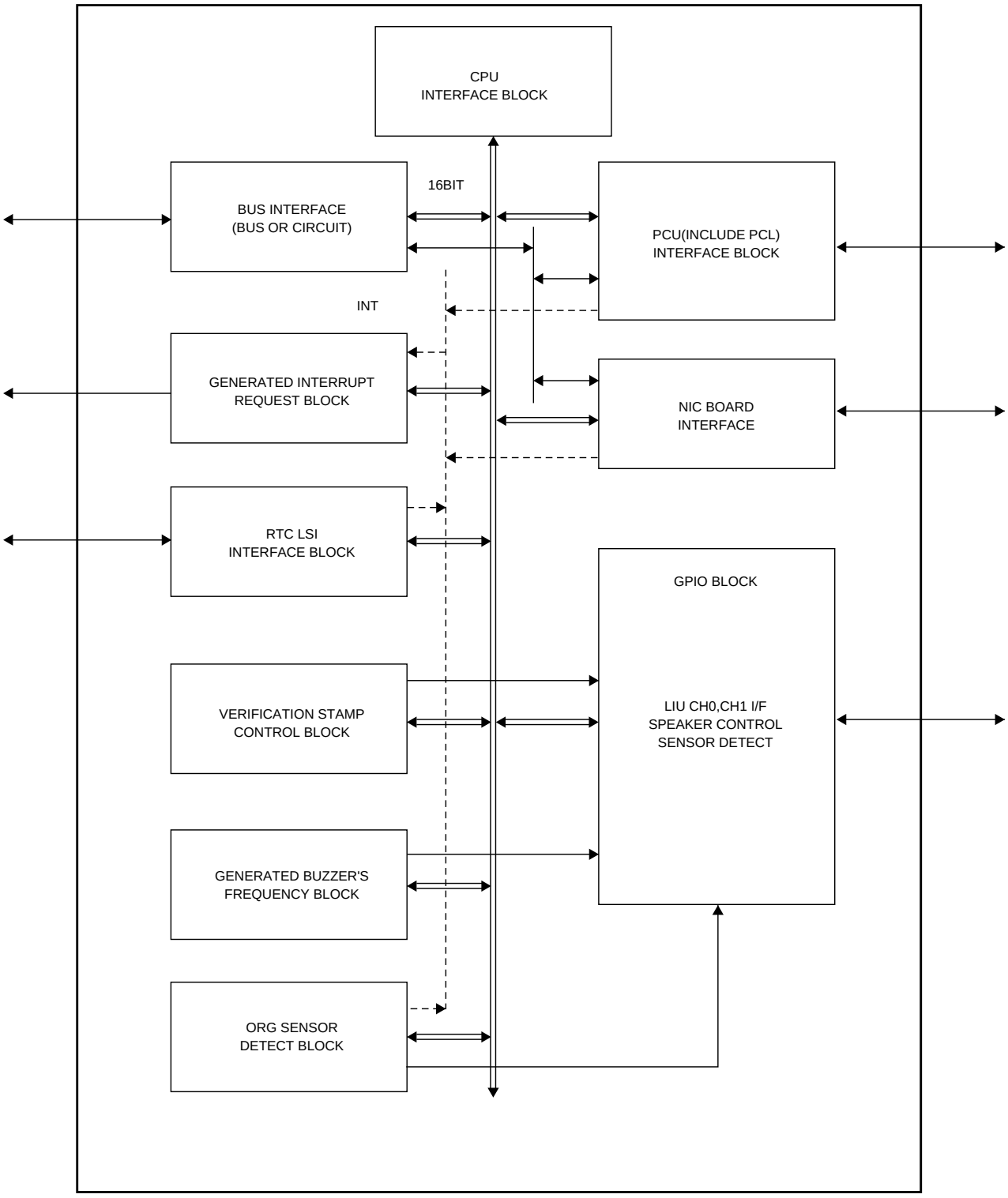


Fig. 4 LC24199B-WJ0-E BLOCK DIAGRAM

LC24199B-WJ0-E (IC21) Terminal description (1/2)

PIN	I/O	Name	Function	PIN	I/O	Name	Function
1	P	VSS	Ground	53	P	VSS	Ground
2	—	N.C	Not connect	54	—	N.C	Not connect
3	I	XCI1	CI detect signal	55	B	DPOPCL10	GPO bus for PCL board
4	O	ERLY0	Reserved for 200V	56	B	DPOPCL11	GPO bus for PCL board
5	O	GAINC0	Reserved for 200V	57	B	DPOPCL12	GPO bus for PCL board
6	O	DPMUTE0	Reserved for 200V	58	B	DPOPCL13	GPO bus for PCL board
7	O	CML0	CML relay control signal	59	B	DPOPCL14	GPO bus for PCL board
8	O	TXMUTE0	Mute control for TX signal	60	B	DPOPCL15	GPO bus for PCL board
9	O	DPON0	Active choke control	61	I	DPAPCL0	Address bus for NIC board (PCL)
10	I	XEXHS0	Hook detect signal for external telephone	62	I	DPAPCL1	Address bus for NIC board (PCL)
11	I	XCI0	CI detect signal	63	I	DPAPCL2	Address bus for NIC board (PCL)
12	I	PDATAM	Print data form main	64	I	DPAPCL3	Address bus for NIC board (PCL)
13	O	CTBSYB	Controller status busy	65	I	DPAPCL4	Address bus for NIC board (PCL)
14	O	CPRDYB	Controller power ready	66	I	DPAPCL5	Address bus for NIC board (PCL)
15	I	ETBSYB	Engine status busy	67	I	DPAPCL6	Address bus for NIC board (PCL)
16	P	VDD	Power supply	68	P	VDD	Power supply
17	P	VSS	Ground	69	P	VSS	Ground
18	I	PRRDYB	Printer ready	70	I	DPAPCL7	Address bus for NIC board (PCL)
19	I	EPRDYB	Engine power ready	71	I	DPAPCL8	Address bus for NIC board (PCL)
20	O	PDATA	Video data of printer	72	I	DPAPCL9	Address bus for NIC board (PCL)
21	O	PCURESB	PCU reset signal	73	I	DPAPCL10	Address bus for NIC board (PCL)
22	O	PCLK	Serial communication clock	74	I	DPAPCL11	Address bus for NIC board (PCL)
23	I	PSTS	Status data from PCU	75	I	DPAPCL12	Address bus for NIC board (PCL)
24	O	PCMD	Command data to PCU	76	I	DPAPCL13	Address bus for NIC board (PCL)
25	I	CTBSYPCLB	Controller status busy in PCL mode	77	I	DPAPCL14	Address bus for NIC board (PCL)
26	I	CPRDYPCLB	Controller power ready in PCL mode	78	I	DPAPCL15	Address bus for NIC board (PCL)
27	O	ETBSYPCLB	Engine status busy in PCL mode	79	I	DPAPCL16	Address bus for NIC board (PCL)
28	O	PRRDYPCLB	Printer ready in PCL mode	80	I	XCSNICP	Chip select signal
29	O	EPRDYPCLB	Engine power ready in PCL mode	81	B	DPONIC0	DPO bus for NIC board
30	I	PDATAINPCL	Video data from PCL	82	B	DPONIC1	DPO bus for NIC board
31	O	PCLRESB	PCL reset signal	83	B	DPONIC2	DPO bus for NIC board
32	O	XNICACKP	Acknowledge signal for NIC in PCL mode	84	B	DPONIC3	DPO bus for NIC board
33	I	RXWP	READ/WRITE signal from PCL	85	B	DPONIC4	DPO bus for NIC board
34	P	VDD	Power supply	86	P	VDD	Power supply
35	P	VSS	Ground	87	P	VSS	Ground
36	I	PCLKPCL	Serial communication clock in PCL mode	88	B	DPONIC5	DPO bus for NIC board
37	O	PSTSPCL	Status data from PCU in PCL mode	89	B	DPONIC6	DPO bus for NIC board
38	I	PCMDPCL	Command data to PCL in PCL mode	90	B	DPONIC7	DPO bus for NIC board
39	O	PACK	Printing acknowledge signal	91	B	DPONIC8	DPO bus for NIC board
40	I	PREQ	Printing request signal	92	B	DPONIC9	DPO bus for NIC board
41	B	DPOPCL0	GPO bus for PCL board	93	B	DPONIC10	DPO bus for NIC board
42	B	DPOPCL1	GPO bus for PCL board	94	B	DPONIC11	DPO bus for NIC board
43	B	DPOPCL2	GPO bus for PCL board	95	B	DPONIC12	DPO Bus for NIC Board(*2)
44	B	DPOPCL3	GPO bus for PCL board	96	B	DPONIC13	DPO Bus for NIC Board(*2)
45	B	DPOPCL4	GPO bus for PCL board	97	B	DPONIC14	DPO Bus for NIC Board(*2)
46	B	DPOPCL5	GPO bus for PCL board	98	B	DPONIC15	DPO Bus for NIC Board(*2)
47	B	DPOPCL6	GPO bus for PCL board	99	O	NICRESB	Reset for NIC
48	B	DPOPCL7	GPO bus for PCL board	100	O	RXWNIC	R/W signal for NIC
49	B	DPOPCL8	GPO bus for PCL board	101	O	XNICACKH	XACK to HOST
50	B	DPOPCL9	GPO bus for PCL board	102	O	XCSNIC	Chip Select Signal for NIC
51	—	N.C	Not connect	103	—	N.C	Not connect
52	P	VDD	Power supply	104	P	VDD	Power supply

LC24199B-WJ0-E (IC21) Terminal description (2/2)

PIN	I/O	Name	Function	PIN	I/O	Name	Function
105	P	VSS	Ground	157	P	VSS	Ground
106	I	SDDCT	SD DICT in	158	I	A3	Address bus
107	I	DPANIC0	Address bus for NIC board	159	I	A2	Address bus
108	I	DPANIC1	Address bus for NIC board	160	I	A1	Address bus
109	O	DPANIC2	Address bus for NIC board	161	I	A0	Address bus
110	P	DPANIC3	Address bus for NIC board	162	I	XWE	Write strobe signal from COSMOS
111	O	DPANIC4	Address bus for NIC board	163	I	RXW	Read/Write Signal
112	O	DPANIC5	Address bus for NIC board	164	I	XRD	Read strobe signal from COSMOS
113	O	DPANIC6	Address bus for NIC board	165	B	D15	Data bus
114	O	DPANIC7	Address bus for NIC board	166	B	D14	Data bus
115	O	DPANIC8	Address bus for NIC board	167	B	D13	Data bus
116	P	DPANIC9	Address bus for NIC board	168	B	D12	Data bus
117	P	DPANIC10	Address bus for NIC board	169	B	D11	Data bus
118	I	DPANIC11	Address bus for NIC board	170	B	D10	Data bus
119	I	DPANIC12	Address bus for NIC board	171	B	D9	Data bus
120	I	VDD	Power supply	172	P	VDD	Power supply
121	O	VSS	Ground	173	P	VSS	Ground
122	—	N.C	Not connect	174	B	D8	Data bus
123	P	DPANIC13	Address bus for NIC board	175	B	D7	Data bus
124	P	DPANIC14	Address bus for NIC board	176	B	D6	Data bus
125	P	DPANIC15	Address bus for NIC board	177	B	D5	Data bus
126	O	DPANIC16	Address bus for NIC board	178	B	D4	Data bus
127	O	XCSNICIN	Chip select of NIC in FAX mode	179	B	D3	Data bus
128	I	GPIO4	PWSAVE: Powr save control for PS-unit	180	B	D2	Data bus
129	I	GPIO5	LEDON: Light ON/OFF for LED in CIS	181	B	D1	Data bus
130	I	GPIO6	VPPCN: VPP control of nor flash memory	182	B	D0	Data bus
131	I	GPIO7	XWP: Write protect for nor flash memory	183	—	N.C	Not connect
132	I	XNICACK	Acknowlede signal for NIC	184	O	INTR	Interrupt request signal
133	I	XROLSNS	Roller position sensor	185	I	XRESET	Reset signal
134	I	XORGSNS	Document sensor	186	I	TEST	Test pin
135	I	XFRSNS	Front sensor	187	O	RTCCE	Chip select (RTC)
136	B	XB4FRS	B4 width sensor	188	O	RTCCK	Serial communication clock (RTC)
137	B	PLNGON	Plunger contorl signal	189	B	RTCDT	Serial communication data (RTC)
138	B	VDD	Power supply	190	P	VDD	Power supply
139	B	VSS	Ground	191	P	VSS	Ground
140	P	SHCLK	External bus Clock(33.3MHz)	192	O	XMDMRST1	Reset signal for modem chip 1
141	P	XCS	Chip select signal	193	O	XMDMRST0	Reset signal for modem chip 0
142	B	A16	Address bus	194	O	BZCONT	Change control of sound source
143	B	A15	Address bus	195	O	SPMUTE	Speaker mute control signal
144	B	A14	Address bus	196	O	VOLC	Speaker volume control signal
145	B	A13	Address bus	197	O	VOLB	Speaker volume control signal
146	B	A12	Address bus	198	O	VOLA	Speaker volume control signal
147	B	A11	Address bus	199	O	BZOUT	Buzzer signal
148	B	A10	Address bus	200	O	GAINC1	Reserved for 200V
149	B	A9	Address bus	201	O	ERLY1	Reserved for 200V
150	B	A8	Address bus	202	O	DPMUTE1	Reserved for 200V
151	B	A7	Address bus	203	O	CML1	CML relay control signal
152	B	A6	Address bus	204	O	TXMUTE1	Mute control for TX signal
153	B	A5	Address bus	205	O	DPON1	Active choke control
154	O	A4	Address bus	206	O	MONSEL	Monitor select/DC character measured
155	—	N.C	Not connect	207	—	N.C	Not connect
156	P	VDD	Power supply	208	P	VDD	Power supply

6) SM8578BV (IC22): pin-8, SOP (Real time clock IC)

It is oscillated with the quartz oscillator of 32.768 kHz, and the clock and calendar functions are provided.
Even if the power supply of the main body is turned off, it is backed up with lithium battery (BAT1).
This device executes the clock-synchronous type serial communication with the Sub ASIC, and CPU can know the time and date through the Sub ASIC.

(2) Backup memory block

This block consists of flash memory for the image memory and 256 Kb SRAM backed up with a battery.
The image memory has a standard capacity of 16 Mbytes, and it is possible to extend the memory to 24 Mbytes in total by installing the option memory FO-8MK to the connector CNOP1.

1) TC58128AFT (IC26) ... pin-48, TSOP (128 Mb NAND EEPROM)

This is non-volatile memory whose contents are not deleted even when the power is turned off. 16 Mbytes are available as an area for storing the encoded data of the copies or transmitted/received images.
It is controlled via the above-mentioned MAIN ASIC (IC6).

2) BS62LV256SC-70 (IC19) ... pin-28, SOP (256 Kb SRAM)

Operation information before shutting off the power supply, user setting content and soft switch content are stored. Even if the power supply of the main body is turned off, it is backed up with a lithium battery (BAT1).

(3) Modem block

The block is mainly composed of the G3 FAX modem FM336PLus (IC30), and is provided with the following modem function.

1) G3 FAX modem

The modem satisfies the requirements specified in ITU-T recommendations V.34 half-duplex, V.17, V.33, V.29, V.27 ter, V.21, and meets the binary signaling requirements of V.8 and T.30 with Annex F.
Internal HDLC support eliminates the need for an external serial input/output (SIO) device in the DTE for products incorporating error detection and T.30 protocol. The modem can perform HDLC framing per T.30 at all data speeds. CRC generation/checking along with zero insertion/deletion enhances SDLC/HDLC frame operations. Two FSK (V.21 Ch. 1 and V.21 Ch. 2) flag pattern detectors facilitate FSK detection during high-speed reception. The modem features a programmable DTMF transmitter/receiver and three programmable tone detectors.

2) Features

· 2-wire half-duplex fax modem modes with send and receive data rates up to 33.6 kbps.
  — V.34 half-duplex, V.17, V.33, V.29, V.27 ter, and V.21 Channel 2
  — Short train option in V.17 and V.27 ter
· 2-wire duplex data modem modes
  — V.21, V.23 (75 bps TX/1200 bps RX or 1200 bps TX/75 bps RX)
· PSTN session starting
  — V.8 and V.8 bis signaling
· HDLC support at all speeds
  — Flag generation, 0-bit stuffing, ITU-T CRC-16 or CRC-32 calculation and generation
  — Flag detection, 0-bit stuffing, ITU-T CRC-16 or CRC-32 check sum error detection
  — FSK flag pattern detection during high-speed receiving
· Tone modes and features
  — Programmable single or dual tone generation
  — DTMF receiver
  — Tone detection with three programmable tone detectors
· Serial and parallel synchronous data
· Automatic Rate Adaptation (ARA) in V.34 half-duplex
· Auto-dial and auto-answer control
· TTL and CMOS compatible DTE interface
  — ITU-T V.24 (EIA/TIA-232-E) (data/control)
  — Microprocessor bus (data/configuration/control)
· Receive dynamic range:
  — 0 dBm to -43 dBm for V.17, V.33, V.29, V.27 ter and V.21
  — -9 dBm to -43 dBm for V.34 half-duplex
· Caller ID Demodulation
· Single tone detection in Data Mode
· ADPCM Voice Mode (Conexant Proprietary)
· Programmable RSLD turn-on and turn-off thresholds
· Programmable transmit level: 0 to -15 dBm
· Adjustable speaker output to monitor received signal
· DMA support for interrupt lines
· Two 16-byte FIFO data buffers for burst data transfer with extension up to 255 bytes
· Diagnostic capability
· V.21 Channel 1 Flag detect and V.21 Channel 2 Flag detect
· +3.3 V operation with +5 V tolerant inputs
· +5 V analog signal interface
· 100-pin PQFP package
· Typical power consumption
  — Normal mode:
    VDD1 = 250 mW (+3.3 V for DSP); VDD = 35 mW (+5 V for IA)
  — Sleep mode:
    VDD1 = 20 mW (+3.3 V for DSP); VDD = 0.1 mW (+5 V for IA)

3) Configurations, Signaling Rates, and Data Rates

Configuration	Modulation	Carrier Frequency (Hz) ± 0.01 %	Data Rate (bps) ± 0.01 %	Symbol Rate (Symbols/Sec.)	Bits/Symbol-Data	Bits/Symbol-TCM	Constellation Points
V.90 PCM	PCM	—	56000 R/V.34 rates T (Note 4)	8000	Dynamic	—	—
V. 34 33600 TCM[3]	TCM	Note 2	33600	3429 only	Note 2	Note 2	Note 2
V. 34 31200 TCM[3]	TCM	Note 2	31200	3200 min	Note 2	Note 2	Note 2
V. 34 28800 TCM[3]	TCM	Note 2	28800	3000 min	Note 2	Note 2	Note 2
V. 34 26400 TCM[3]	TCM	Note 2	26400	2800 min	Note 2	Note 2	Note 2
V. 34 24000 TCM[3]	TCM	Note 2	24000	2800 min	Note 2	Note 2	Note 2
V. 34 21600 TCM[3]	TCM	Note 2	21600	2400 min	Note 2	Note 2	Note 2
V. 34 19200 TCM[3]	TCM	Note 2	19200	Note 2	Note 2	Note 2	Note 2
V. 34 16800 TCM[3]	TCM	Note 2	16800	Note 2	Note 2	Note 2	Note 2
V. 34 14400 TCM[3]	TCM	Note 2	14400	Note 2	Note 2	Note 2	Note 2
V. 34 12000 TCM[3]	TCM	Note 2	12000	Note 2	Note 2	Note 2	Note 2
V. 34 9600 TCM[3]	TCM	Note 2	9600	Note 2	Note 2	Note 2	Note 2
V. 34 7200 TCM[3]	TCM	Note 2	7200	Note 2	Note 2	Note 2	Note 2
V. 34 4800 TCM[3]	TCM	Note 2	4800	Note 2	Note 2	Note 2	Note 2
V. 34 2400 TCM[3]	TCM	Note 2	2400	2400 only	Note 2	Note 2	Note 2
V. 32 bis 14400 TCM	TCM	1800	14400	2400	6	1	128
V. 32 bis 12000 TCM	TCM	1800	12000	2400	5	1	64
V. 32 bis 9600 TCM	TCM	1800	9600	2400	4	1	32
V. 32 bis 7200 TCM	TCM	1800	7200	2400	3	1	16
V. 32 bis 4800	QAM	1800	4800	2400	2	0	4
V. 32 9600 TCM	TCM	1800	9600	2400	4	1	32
V. 32 9600	QAM	1800	9600	2400	4	0	16
V. 32 4800	QAM	1800	4800	2400	2	0	4
V. 22 bis 2400	QAM	1200/2400	2400	600	4	0	16
V. 22 bis 1200	DPSK	1200/2400	1200	600	2	0	4
V. 22 1200	DPSK	1200/2400	1200	600	2	0	4
V. 22 600	DPSK	1200/2400	600	600	1	0	4
V. 23 1200/75	FSK	1700/420	1200/75	1200	1	0	—
V. 21	FSK	1080/1750	Up to 300	300	1	0	—
Bell 208 4800	DPSK	1800	4800	1600	3	0	8
Bell 212A	DPSK	1200/2400	1200	600	2	0	4
Bell 103	FSK	1170/2125	Up to 300	300	1	0	—
V. 17 14400 TCM/V.33	TCM	1800	14400	2400	6	1	128
V. 17 12000 TCM/V.33	TCM	1800	12000	2400	5	1	64
V. 17 9600 TCM	TCM	1800	9600	2400	4	1	32
V. 17 7200 TCM	TCM	1800	7200	2400	3	1	16
V. 29 9600	QAM	1700	9600	2400	4	0	16
V. 29 7200	QAM	1700	7200	2400	3	0	8
V. 29 4800	QAM	1700	4800	2400	2	0	4
V. 27 4800	DPSK	1800	4800	1600	3	0	8
V. 27 2400	DPSK	1800	2400	1200	2	0	4
V. 21 Channel 2	FSK	1750	300	300	1	0	—

Notes:

1. Modulation legend: TCM: Trellis-Coded Modulation QAM: Quadrature Amplitude Modulation PCM: Pulse Coded Modulation
   FSK: Frequency Shift Keying DPSK: Differential Phase Shift Keying
2. Adaptive; established during handshake:

Symbol Rate (Baud)	V. 34 Low Carrier Frequency (Hz)	V. 34 High Carrier Frequency (Hz)
2400	1600	1800
2800	1680	1867
3000	1800	2000
3200	1829	1920
3429	1959	1959

3. For both duplex and half-duplex modes.
4. Maximum data rate.

FM336Plus (IC30) Terminal description

PIN	I/O	Name	Interface	PIN	I/O	Name	Interface
1	—	RESERVED	NC	51	—	RESERVED	NC
2	IA	RS2	HOST Interface	52	GND	VSUB	—
3	IA	RS3	HOST Interface	53	GND	VSS	—
4	IA	RS4	HOST Interface	54	—	NC	NC
5	IA	/CS	OHOST Interface	55	—	NC	NC
6	IA	/WR	HOST Interface	56	MI	SLEEP	Modem Interconnect
7	IA	/RD	HOST Interface	57	PWR	VDD1	—
8	OA	/RDCLK	DTE Serial Interface	58	—	NC	NC
9	OA	/RLSD	DTE Serial Interface	59	—	RESERVED	NC
10	OA	TDCLK	DTE Serial Interface	60	—	RESERVED	NC
11	IA	TXD	DTE Serial Interface	61	MI	SR1IO	Modem Interconnect
12	OA	/CTS	DTE Serial Interface	62	PWR	VCORE	—
13	PWR	VDD1	—	63	PWR	VDD1	—
14	—	RESERVED	NC	64	IA	XTCLK	DTE Serial Interface
15	—	RESERVED	NC	65	GND	VSS	—
16	GND	VSS	—	66	—	RESERVED	NC
17	—	NC	NC	67	OA	RXD	DTE Serial Interface
18	IA	/RESET	Modem Interconnect	68	IA	/DTR	DTE Serial Interface
19	OA	SR4OUT	Modem Interconnect	69	PWR	VDD1	—
20	—	NC	NC	70	MI	IA SLEEP	Modem Interconnect
21	IA	SR4IN	Modem Interconnect	71	PWR	VGG	—
22	OA	CLK OUT	Modem Interconnect	72	OA	YCLK	Overhead Signal
23	OA	EYESYNC	Diagnostic Signal	73	OA	XCLK	Overhead Signal
24	OA	EYECLK	Diagnostic Signal	74	OA	EYEXY	Diagnostic Siganl
25	GND	MAVSS	—	75	OA	/DSR	DTE Serial Interface
26	PWR	MAVDD	—	76	OA	/RI	Telephone Line Interface
27	O(DF)	SPKR	Telephone Line Interface	77	IA	RINGD	Telephone Line Interface
28	O(DD)	TXA2	Telephone Line Interface	78	IA	/RTS	DTE Serial Interface
29	O(DD)	TXA1	Telephone Line Interface	79	OA	IRQ	HOST Interface
30	MI	VREF	Modem Interconnect	80	GND	VSS	—
31	MI	VC	Modem Interconnect	81	MI	GP00	Modem Interconnect
32	I(DA)	RIN	Telephone Line Interface	82	—	RESERVED	NC
33	AGND	MAVSS	—	83	—	RESERVED	NC
34	IA	/POR	Modem Interconnect	84	PWR	VDD1	—
35	—	RESERVED	NC	85	I	XTALI/CLKIN	Overhead Signal
36	—	RESERVED	NC	86	O	XTALO	Overhead Signal
37	O(DD)	/TALK	Telephone Line Interface	87	IA/OB	D0	HOST Interface
38	PWR	VDD	—	88	IA/OB	D1	HOST Interface
39	—	RESERVED	NC	89	IA/OB	D2	HOST Interface
40	—	RESERVED	NC	90	IA/OB	D3	HOST Interface
41	—	NC	NC	91	IA/OB	D4	HOST Interface
42	IA	M CNTRL SIN	Modem Interconnect	92	PWR	VDD1	—
43	IA	M CLKIN	Modem Interconnect	93	IA/OB	D5	HOST Interface
44	IA	M TXSIN	Modem Interconnect	94	IA/OB	D6	HOST Interface
45	IA	M SCK	Modem Interconnect	95	IA/OB	D7	HOST Interface
46	IA	M RXOUT	Modem Interconnect	96	IA/OB	RS0	HOST Interface
47	IA	M STROBE	Modem Interconnect	97	IA/OB	RS1	HOST Interface
48	—	RESERVED	NC	98	PWR	PLL VDD	—
49	O(DD)	OH	Telephone Line Interface	99	GND	VSS	—
50	PWR	VDD	—	100	GND	PLL GND	—

Notes:
1. I/O types: MI: Modem interconnect IA, IB: Digital input O(DD), O(DF): Analog input
I(DA): Analog input OA, OB: Digital output
2. NC= No external connection required. RESERVED= No external connection allowed.
3. Interface Legend:
HOST= Modem Control Unit (Host)
DET= Data Terminal Equipment

(4) Scanner control block

1) Image signal process block

The CIS is driven by MAIN ASIC (IC6), and the output video signal from the CIS is input into IC6 through the amplifying circuit.
The ADC and buffer are provided in IC6, and the digital image processing is performed.

2) Mechanical control block

The mechanical control block is mainly composed of MAIN ASIC to control the following.

(a) Scanner motor control

The revolution speed and timing of the scanner motor are controlled to output the control signals to the motor driver (IC3).

(b) Verification stamp and LED lamp control

On/off of the end verification and LED lamp of CIS is controlled with the software.

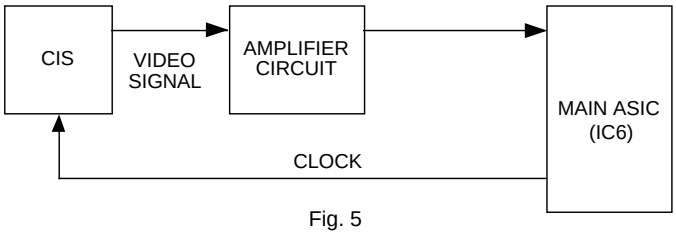


Fig. 5

(5) Speaker amplifier

The speaker amplifier monitors the line under the on-hook mode, outputs the buzzer sound generated by SUB ASIC, ringer sound, DTMF generated from the modem, and line sound.

(6) Page memory block

W986416DH or MT48LC4M16A2TG (IC5): pin-54, TSOP (64 Mb SDRAM)

The page memory block is composed of one SDRAM of 64 Mb, being commonly used as the image memory. The memory is divided into the page memory for the scanner and the page memory for printing.
This memory is controlled by the MAIN ASIC directly.

The page memory for scanner is composed of the partial area of IC5. The image data of approx. one page (except in the super fine mode) of the draft read with the scanner can be stored. They are stored until they are contracted by CODEC function in MAIN ASIC.

The page memory for printing is composed of the remaining areas of IC5 and can store approx. one page of the image data decoded by CODEC function in MAIN ASIC. The data are stored until they are transferred to Printer PWB with the SUB ASIC and printed.

(7) Driver block

Sending motor driver (IC3: LB1845) ---- 28-pin DIP

This IC driver at the sending motor at the constant current with the bipolar, chopper system.

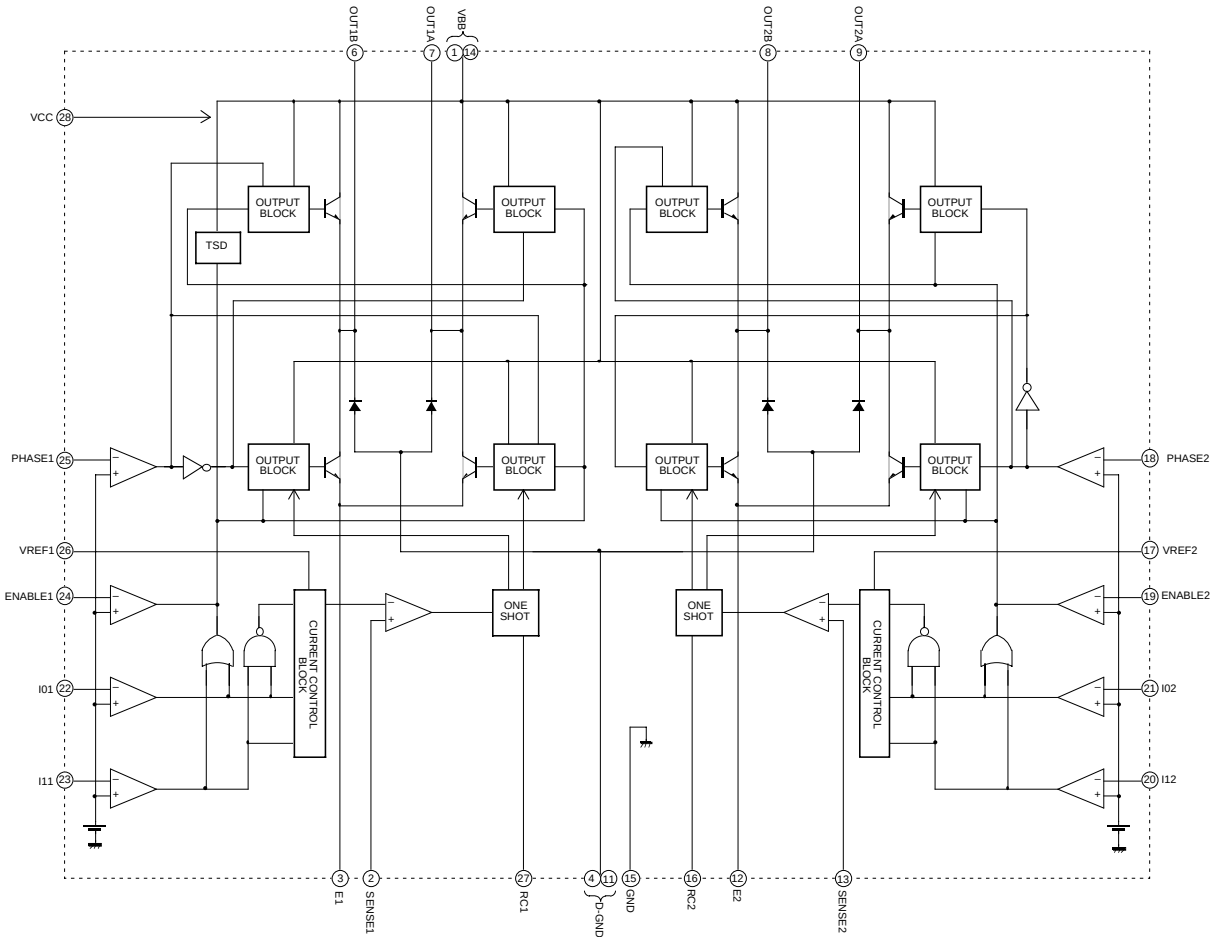


Fig. 6

I_0	I_1	Output Current
L	L	Vref/ (10 x R_E) = I_{OUT}
H	L	Vref/ (15 x R_E) = I_{OUT} x 2/3
L	H	Vref/ (30 x R_E) = I_{OUT} x 1/3
H	H	0

Note: When ENABLE = H or I_0 = I_1 = H, the output is in OFF state.

[Truth Table]

ENABLE	PHASE	OUTA	OUTB
L	H	H	L
L	L	L	H
H	–	OFF	OFF

LB1845 (IC3) Terminal description

Pin name	Pin No.	Pin Description
VBB	1, 14	Output stage power-supply voltage
SENSE1 SENSE2	2 13	Set current detection pins. Connect these pins, fed back through noise filters, to E1, and E2.
E1 E2	3 12	Current control pins by connecting between this pin and GND.
DGND	4,11	Internal diode anode connection
OUT1B OUT1A OUT2B OUT2A	6 7 8 9	Output pins
GND	15	Ground
RC1 RC2	27 16	Used to set the output off time for the switched output signals. The fixed off times are set by the capacitors and resistors connected to these pins. t off ≒ CR
Vref1 Vref2	26 17	Output current settings The output current is determined by the voltage (in the range 1.5 to 7.5V) input to these pins.
PHASE1 PHASE2	25 18	Output phase switching inputs. [H] input : OUT A = high, OUT B = low [L] input : OUT A = low, OUT B = high
ENABLE1 ENABLE2	24 19	Output on/off settings [H] input : output OFF [L] input : output ON
I01, I11 I02, I12	22, 23 21, 20	Digital inputs that set the output current The output currents can be set to 1/3, 2/3, or full by setting these pins to appropriate combinations of high and low levels.
VCC	28	Logic block power supply.

(8) LCD control block

This block consists of the LCD controller and drive voltage generation circuit.

1) SED1374F0A (IC10): pin-80, QFP (LCD Controller)

The LCD controller SED1374F0A (IC10) conducts direct control to display the bitmap data through the LCD module, which is transferred to the built-in VRAM by the CPU (IC24).

2) Drive voltage generation circuit

The drive voltage of the LCD module is generated by the booster circuit including the switching regulator S-8358J50MC (IC4).
The CPU monitors the ambient temperature of the LCD module using the thermistor, and the temperature adjustment of the LCD's contrast is performed by controlling the drive voltage.

(9) Network I/F block

This block establishes interface to the NIC option (FO-LN1) and PCL board option (FO-NP1) through SUB ASIC mentioned in the above item 5). The I/F line (DPO-bus) to NIC is shared with the Fax system on the PCL board, and SUB ASIC assigns a place to connect. The PCU (laser printer engine) is also shared with the Fax system on the PCL board, and the printer master is decided by mutual negotiations via SUB ASIC. The I/F route is as follows:

① Fax system to NIC
Makes communication via SUB ASIC.

② Fax system to PCL board
- Serial Communication: Clock sync serial communication function
- Print Request/Acknowledge: Print request from the PCL board and response to it

③ NIC to PCL board
Makes communication via SUB ASIC.

④ PCL board to PCU
- Serial Communication: Clock sync serial communication function
- Other signals: The print vertical sync signal (/TOD) and the print horizontal sync signal (/HSYNC) are connected directly. Signals other than these are connected via SUB ASIC.

[3] Circuit description of CIS unit

1. CIS

CIS is an image sensor which puts the original paper in close contact with the full-size sensor for scanning, being a monochromatic type with the pixel number of 2,048 dots and the main scanning density of 8 dots/mm.

It is composed of sensor, rod lens, LED light source, control circuit and so on, and the reading line and focus are previously adjusted as the unit.
Due to the full-size sensor, the focus distance is so short that the set is changed from the light weight type to the compact type.

2. Waveforms

The following clock is supplied from LC272D0BT-WA6 via 74HCT244 on the control board, and AO is output.

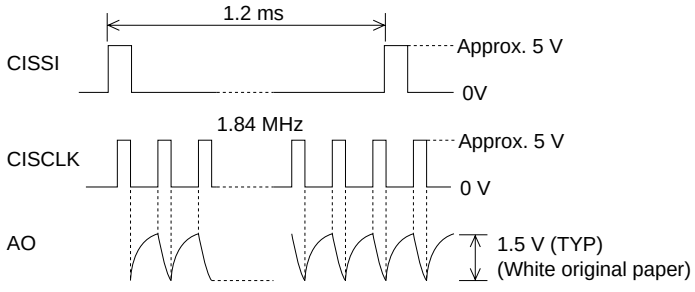


Fig. 7

[4] Circuit description of LIU PWB

(1) LIU block operational description

1) Block diagram

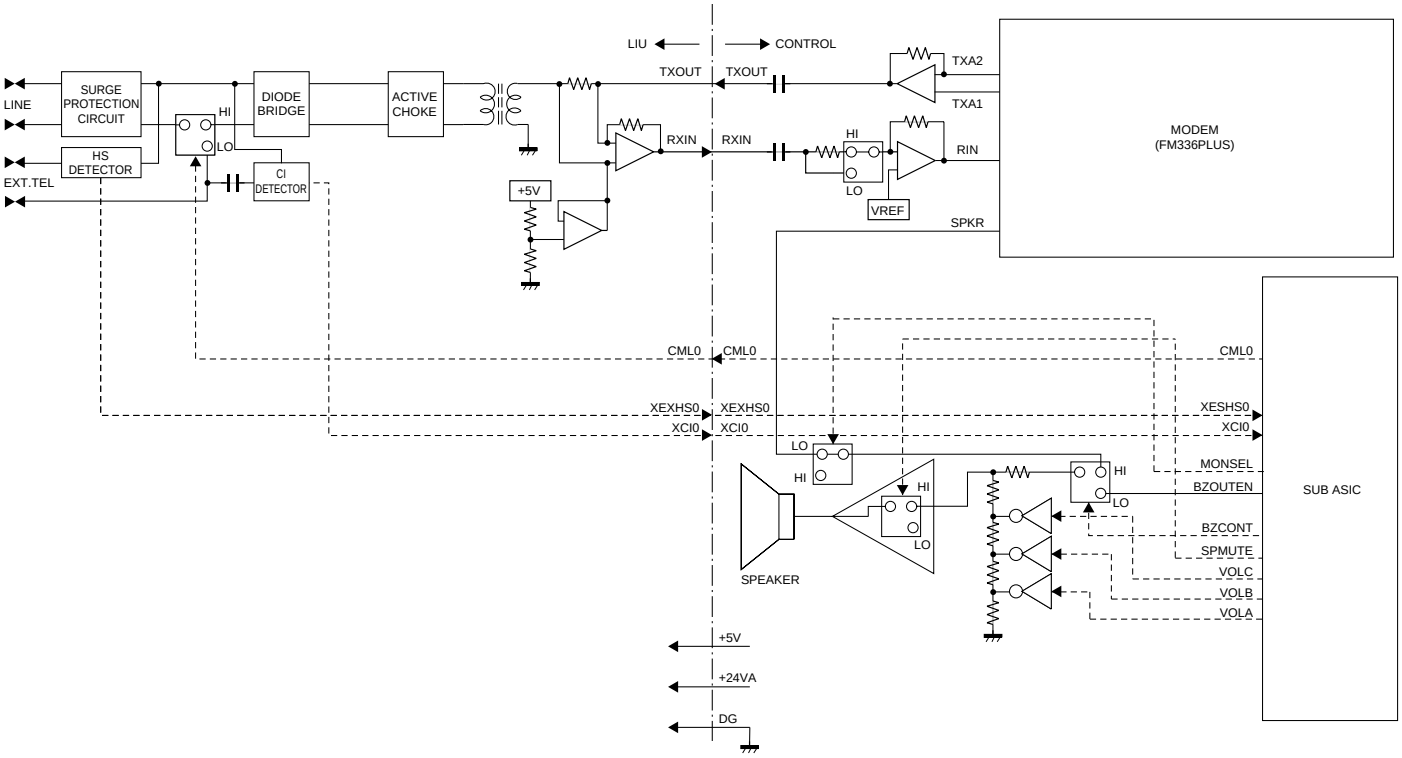


Fig. 8

2) Circuit description

The LIU PWB is composed of the following 9 blocks.

1. Surge protection circuit
2. On-hook status detection circuit
3. Dial pulse generation circuit
4. CML relay
5. Matching transformer
6. Hybrid circuit
7. Signal selection
8. CI detection circuit
9. Power supply and bias circuit

3) Block description

1. Surge Protection circuit

This circuit protects the circuit from the surge voltage occurring on the telephone line.

- The AR1 protect the circuit from the 390V or higher line surge voltages.
- The AR2 and AR3 protect the circuit from the 500V or higher vertical surge voltages.
- The ZD6 and ZD7 control the voltage generated on the secondary side of matching transformer to 2V.

2. On-hook status detection circuit

The on-hook status detection circuit detects the Status of the push speaker key, and the status of the hook of a telephone externally connected.

- External telephone hook status detection circuit (XEXHS0)

This circuit comprises the photo-coupler PC3, resistors R13 and R12, Zener diodes ZD1 and ZD2.
When an external telephone is connected and enters the on-hook mode, the LED of photo-coupler PC3 emits light and the light receiving element tuns on. The status signal XEXHS0 is input to the pin10 of (SUB ASIC) (IC21: Control PWB).

XEXHS0 LOW : EXT. TEL OFF-HOOK

XEXHS0 HIGH: EXT. TEL ON-HOOK

3. Dial pulse generation circuit

The pulse dial generation circuit comprises CML.
CML ON: Make

CML OFF: Break

4. CML relay

The CML relay switches over connection to the matching transformer T1 while the FAX is being used.

5. Matching transformer

The matching transformer performs electrical insulation from the telephone line and impedance matching for transmitting the FAX signal.

6. Hybrid circuit

The hybrid circuit performs 2-wire-to-4-wire conversion using the IC of operational amplifier, transmits the voice transmission signal to the line, and feeds back the voice signal to the voice reception circuit as the side tone.

7. Signal selection

The following signals are used to control the transmission line of FAX signal. For details, refer to the signal selector matrix table.

[Control signals from output port]

<table>
<tr><th>Signal Name</th><th>Description</th></tr>
<tr><td>CML0</td><td>Line connecting relay and DP generating relay
H: Line make
L: Line brake</td></tr>
<tr><td>SP MUTE</td><td>Speaker tone mute control signal
H: Muting (Power down mode)
L: Muting cancel (Normal operation)</td></tr>
<tr><td>VOL A
VOL B
VOL C
(the circuit is located in the control PWB.)</td><td>Speaker volume control signal
VRSEL1 VRSEL2 matrix
<table>
<tr><th></th><th>VOL A</th><th>VOL B</th><th>VOL C</th><th>RING./ Receiving</th><th>Buzzer</th><th>DTMF</th></tr>
<tr><td></td><td>L</td><td>L</td><td>L</td><td>High</td><td>–</td><td>High</td></tr>
<tr><td></td><td>H</td><td>L</td><td>L</td><td>Middle</td><td>High</td><td>Middle</td></tr>
<tr><td></td><td>L</td><td>L</td><td>H</td><td>Low</td><td>Low</td><td>Low</td></tr>
</table></td></tr>
<tr><td>BZCONT
(the circuit is located in the control PWB.)</td><td>Speaker output signal switching
L: Buzzer signal output
H: When monitoring line signal</td></tr>
</table>

[SIgnals for status recognition according to input signals]

Signal Name	Function
XCI0	Incoming call (CI) detection signal
XEXHS0	H: The handset or external telephone is in the on-hook state. L: The handset or external telephone in the off-hook state.

[Other signals]

Signal Name	Function
TXOUT	Transmission (DTMF) analog signal output from modem
RXIN	Reception (DTMF, others) analog signal input into modem

NO	Signal Name(CNLIU)	NO	Signal Name(CNLIU)
1	RXIN	6	CML
2	TXOUT	7	+5V
3	CI	8	DG
4	$\overline{\text{EXHS}}$	9	+24VA
5	DPON (N.C.)		

8. CI detection circuit

The CI detection circuit detects the CI signals of 15.3 Hz to 68 Hz. A CI signal, which is provided to the photo-coupler PC1 through the C1 (0.82 uF), R6 (22K), and ZD3 and R5 (13K) when the ring signal is inputted from the telephone line.

9. Power supply and bias circuits

The voltages of +5V and +24VA are supplied from the control PWB unit.

(Example: Fax signal send)

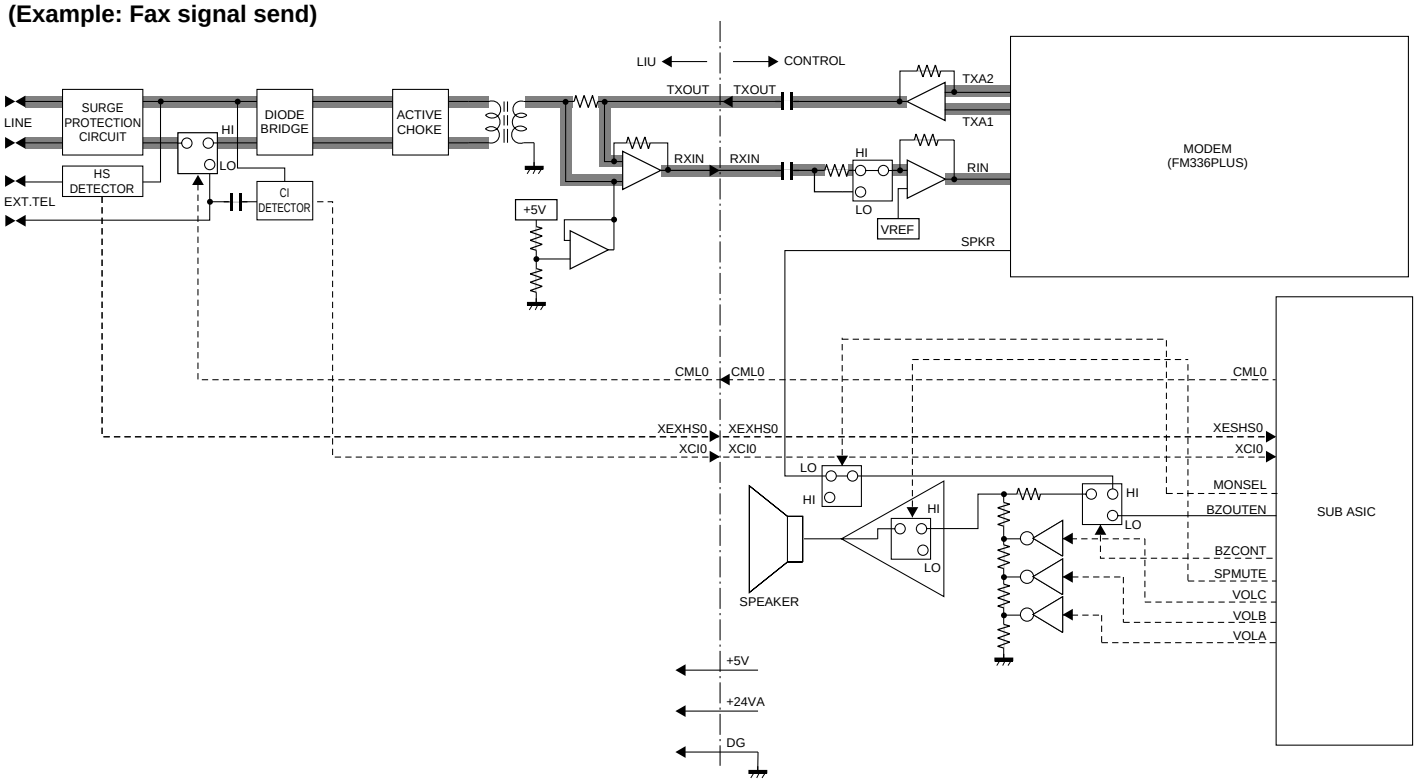


Fig. 9

[5] Circuit description of operation panel PWB

1. Operational description

1) Operation panel PWB

The operation panel PWB includes the ten key scan circuit and the LED lighting circuit.The LS145 is controlled through LD0~LD3 (4 bits) and ten key detection is performed. The HC174 is controlled through LD0~LD5 (6 bits) to provide LED lighting information.

2) LCD (LM046QB1H01)

a. Scope of application
This specification applies to a positive diffusion type monochrome dot matrix LCD module LM046QB1H01.

b. Structure and external shape
Structure: 320 x 240 monographic display module
This dot matrix LCD module consists of an LCD panel, a print PWB mounting electrical parts, a TCP electrically connecting these units and bezels fixing them mechanically.

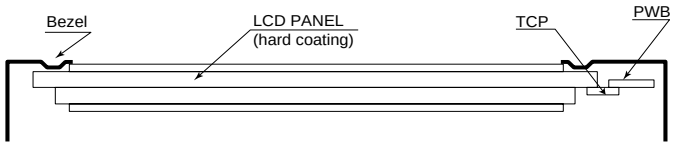


Fig. 10 Module construction plan

2. Block diagram

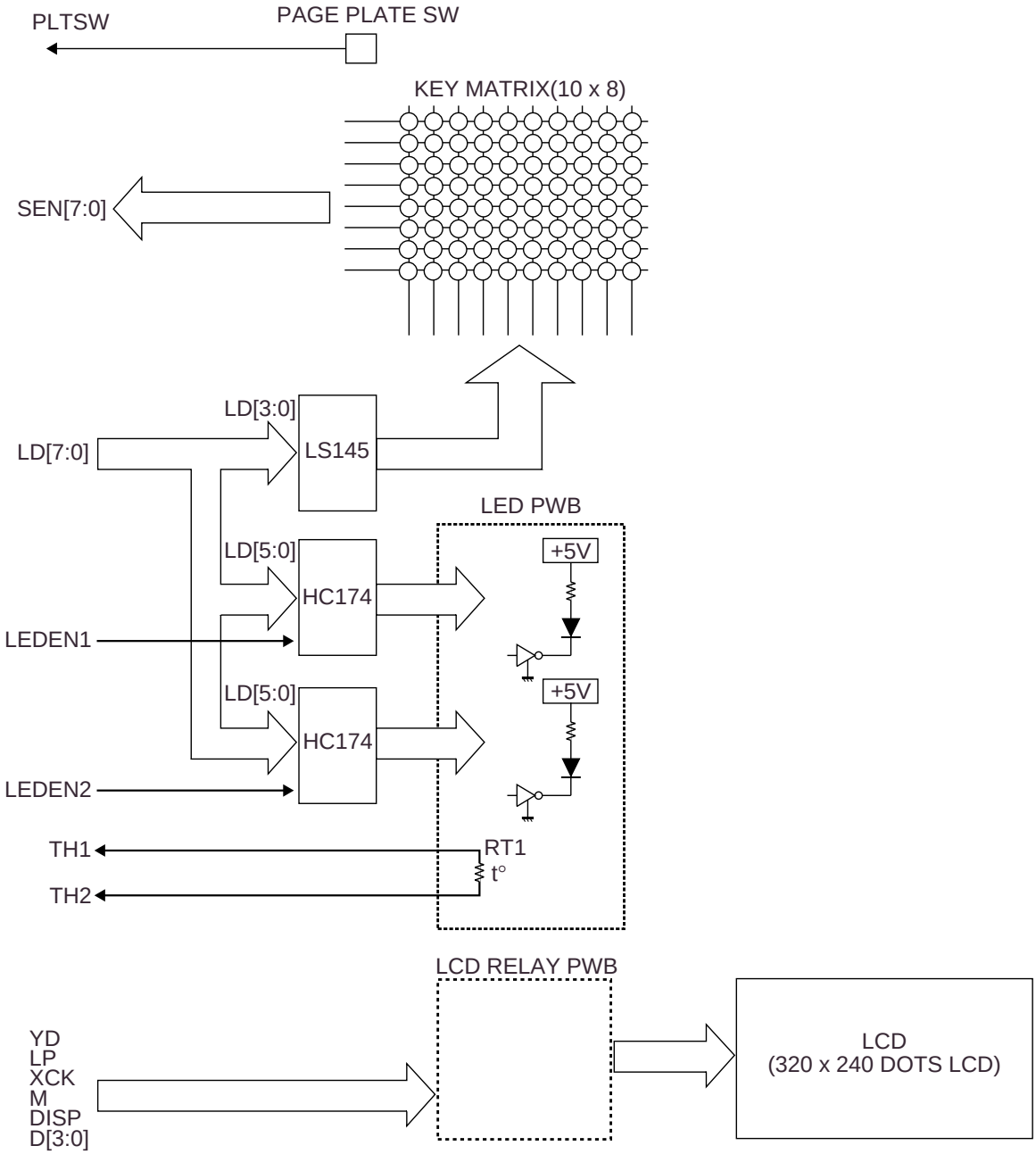


Fig. 11

[6] Circuit description of power supply PWB

This unit supply input AC 120 V/60 Hz, +24 V, +5 V as block diagram shows. (See Fig. 12)

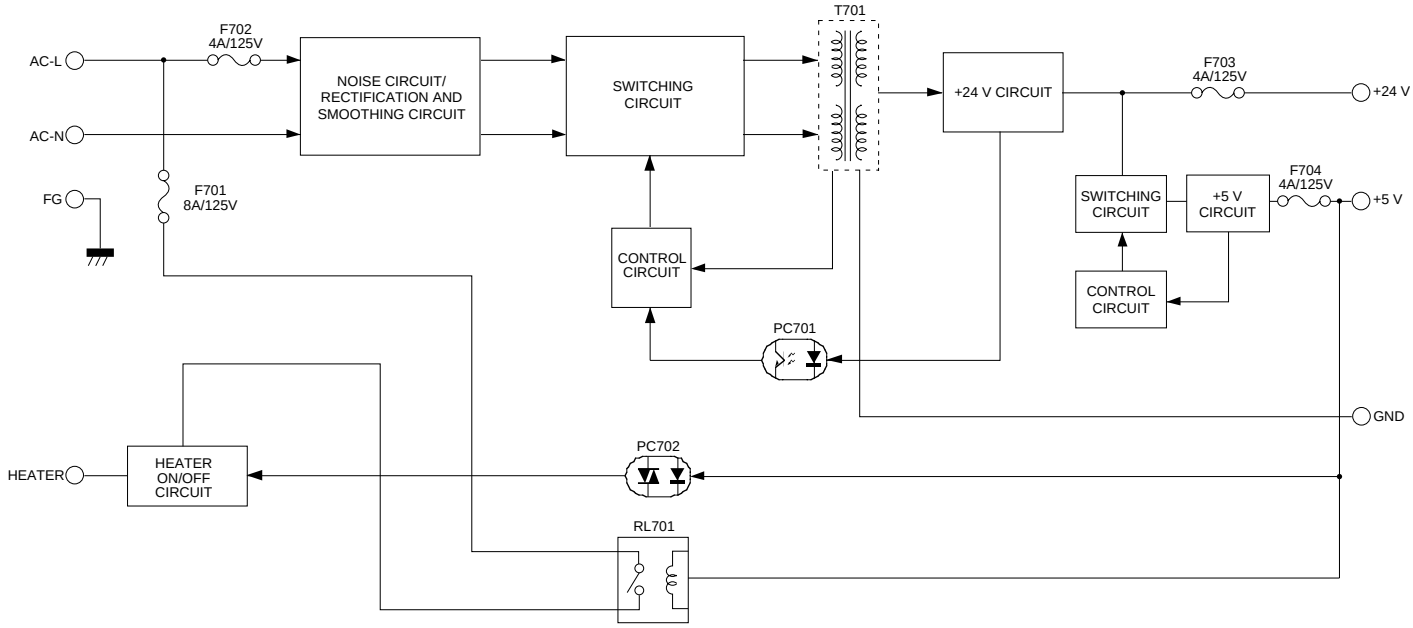


Fig. 12

1. Noise/Rectification and smoothing circuit

Filter part reduces the outgoing noise that generated in the Power Supply unit, and prevents the invasion of the noise from outside. The excessive surge such as the thunder is prevented by Varistor X701.
Rectification and Smoothing circuit is supply DC voltage to switching part by AC input rectify by Diode D701, D702, D703, D704 and smoothing Capacitor C706.

2. Switching circuit

This circuit is adopt Ringing Choke Converter system that self-excited. This system supplies power as follows;
AC voltage that supplied by Rectifying and smoothing part is change high-frequency pulse by NO/OFF repeat of MOS FET Q701. And while Q701 ON, accumulate energy in primary winding of transformer T701. And while OFF, eject energy to secondary winding.
Control of constant voltage is carry out by as follows;
Feedback put on control circuit through photo coupler from +24 V Output. Over Current Protection Circuit detect spread of ON period by Output Load is heavy, and extend OFF period by control circuit. And turn down energy that accumulating in primary winding.
Over Current Protection is make secondary side of output voltage +24 V's rising over voltage condition by conducting Zener Diode D711 that between +24 V output and GND. Then protection is carrying out by Over Current Protection Circuit of Control Circuit working.

3. +24 V circuit

+24 V Circuit is supplied by Transformer T701 Output Rectification and Smoothing by Diode D710, Capacitor C715.

4. +5 V circuit

+5 V Output is carry out stabilization by step-down Chopper Circuit that inputted above +24 V. When MOS FET Q705 ON, this system supply load energy through L705, and when OFF, accumulated energy in L705 Rectification to load by D715. Control of constant voltage is carry out by detect +5 V output by Shunt Regulator and put on Feedback.

5. HEATER ON signal

HEATER ON/OFF is carry out by send a signal through Trigger TR701 of Photo Triac Coupler PC702 by (High/Low).

6. HEATER-RELAY OFF signal

ON/OFF of Relay RL701 is carry out by (High/Low). But when HEATER-RELAY OFF Signal change High to Low, Thyristor SR701 keep ON condition. So RL701 keep OFF condition till Power Supply re-inter.

[7] Circuit description of Dual Line Kit (Option: FO-60DL)

1) Block diagram

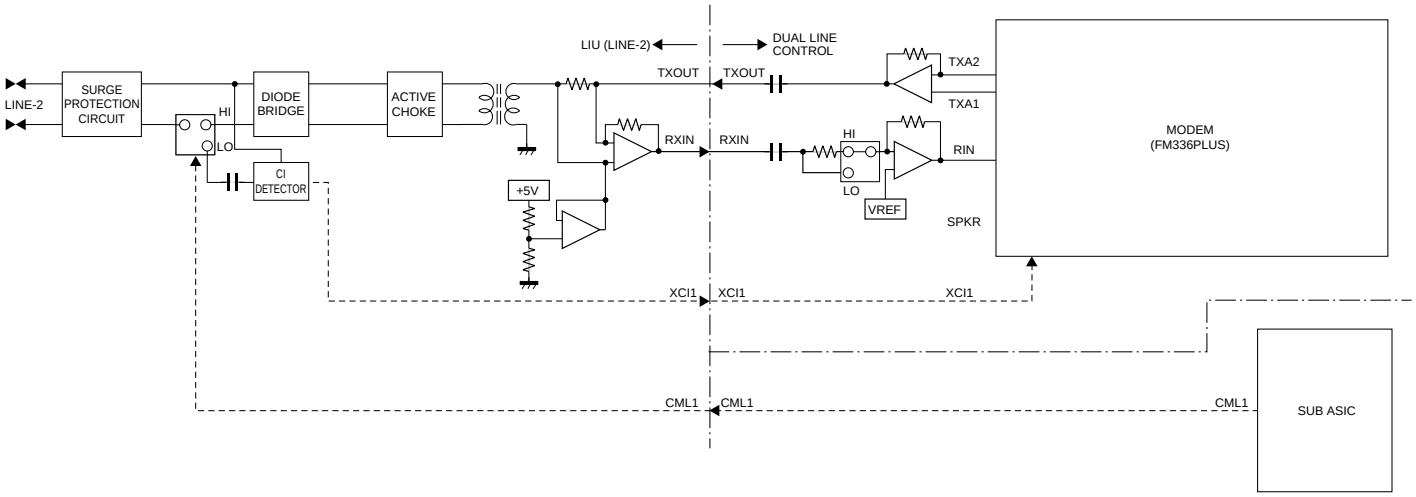


Fig. 13

2) Circuit description

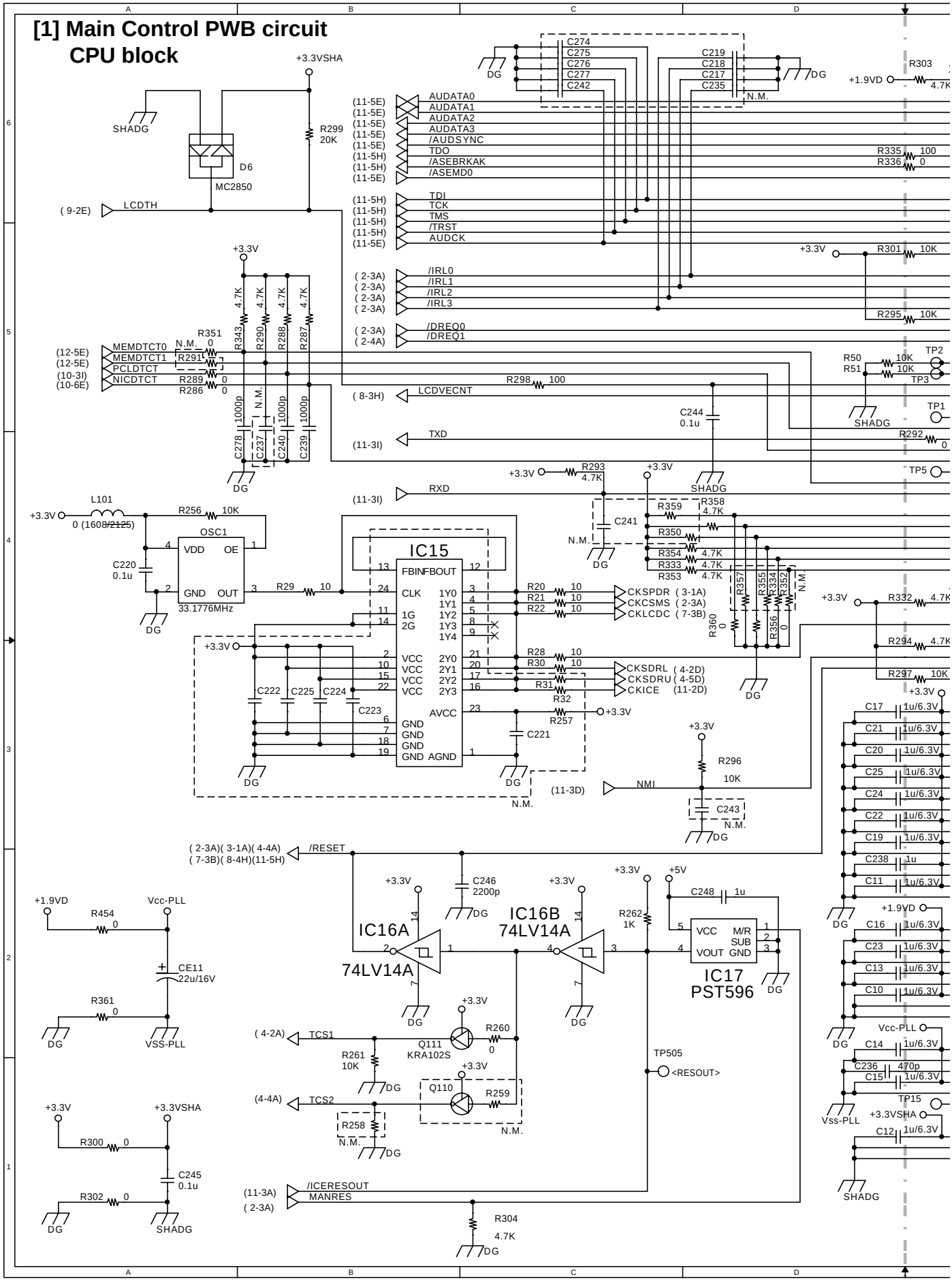
1. Dual Line Control PWB
2. LIU PWB (Line-2)

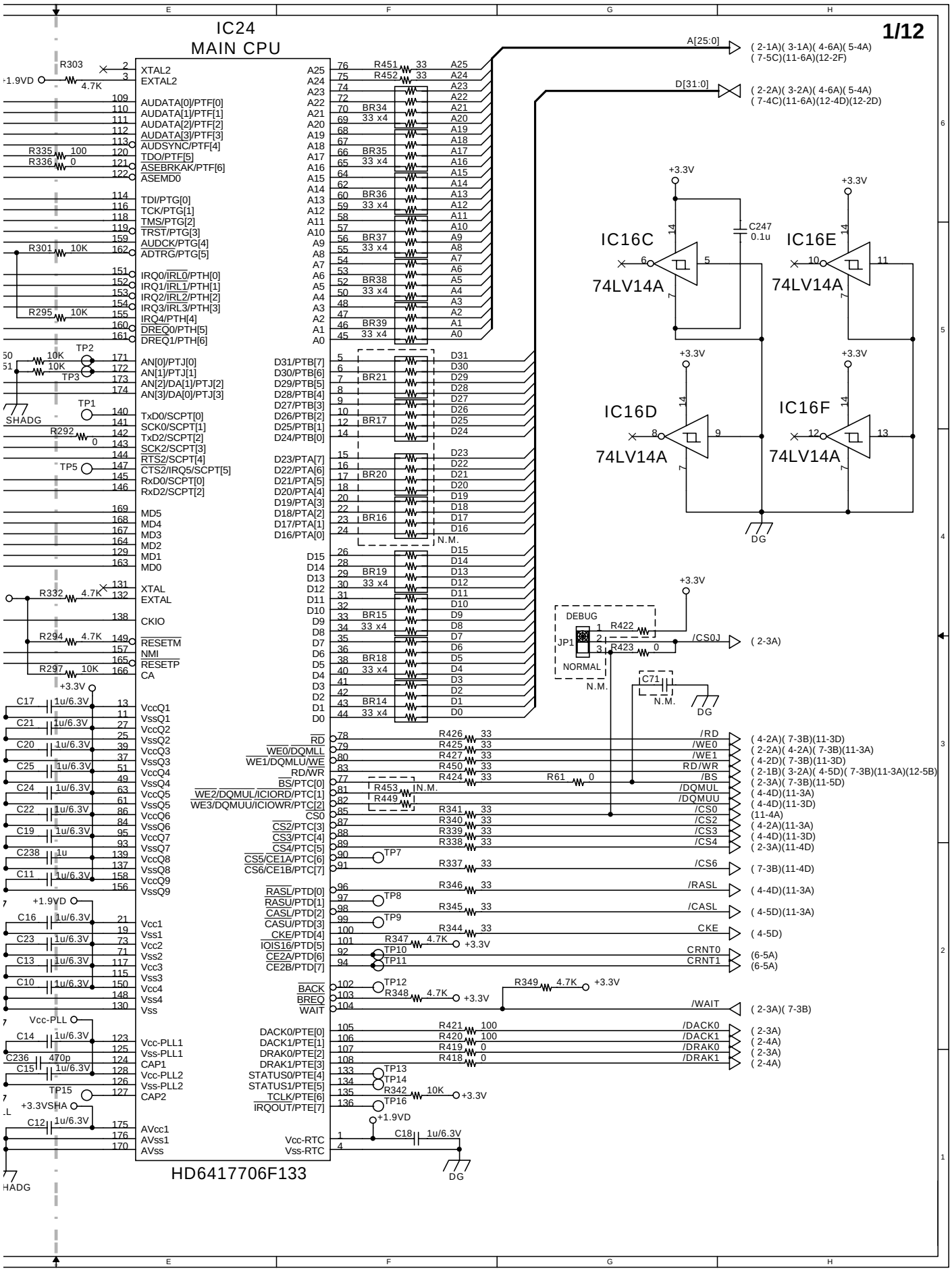
1. Dual Line Control PWB
   The circuit structure of Dual Line Control PWB is the same as that of Modem Block on the Control PWB, and has G3 FAX communication function which is similar to that function of Line-1.

2. LIU PWB (Line-2)
   LIU PWB (Line-2) is the same unit as LIU PWB (Line-1) and has line I/F function for Line-2.
   It is controlled by Control PWB, and the communication data line is connected to the modem on Dual Line Control PWB.

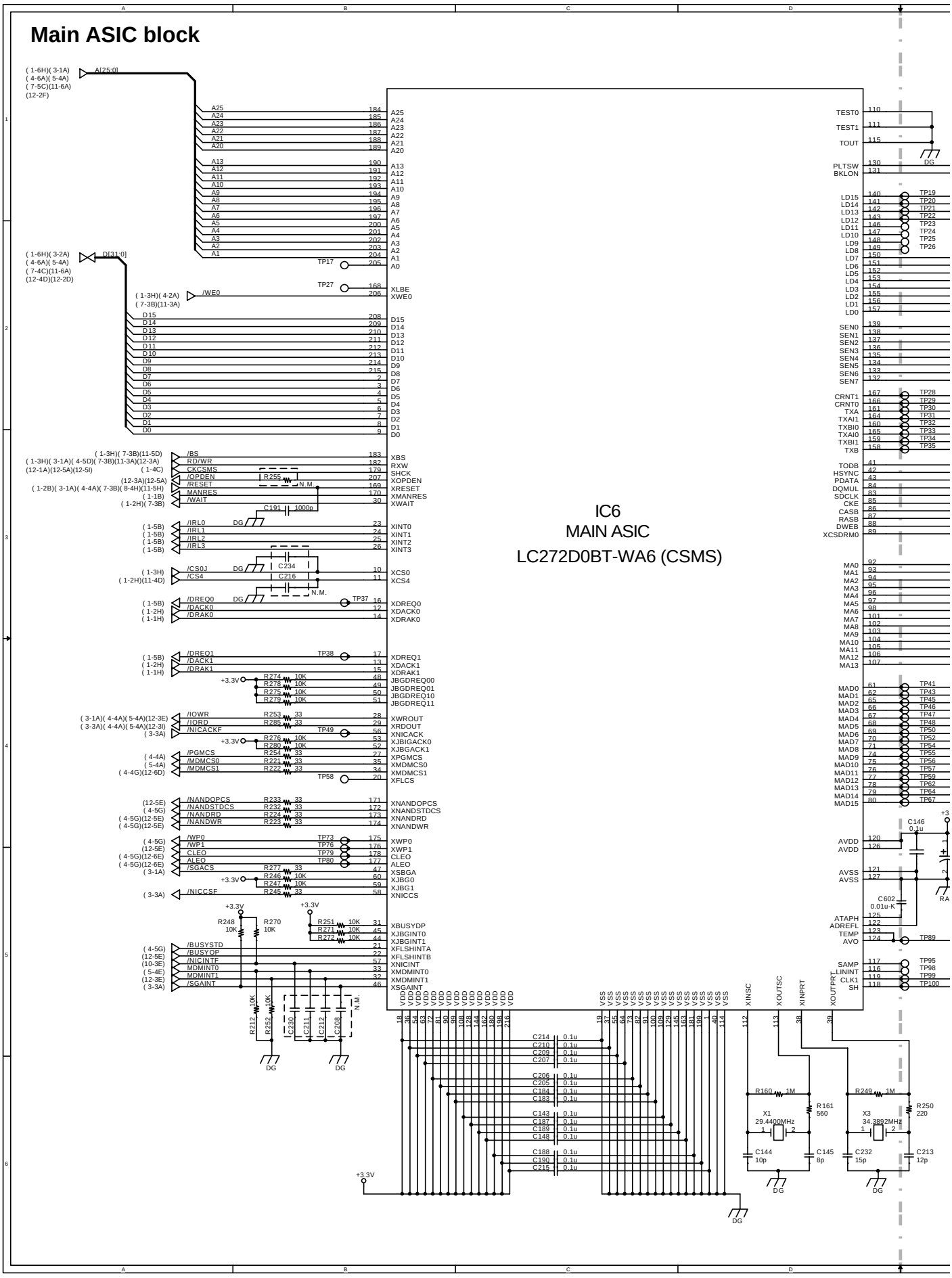
CHAPTER 6. CIRCUIT SCHEMATICS AND PARTS LAYOUT

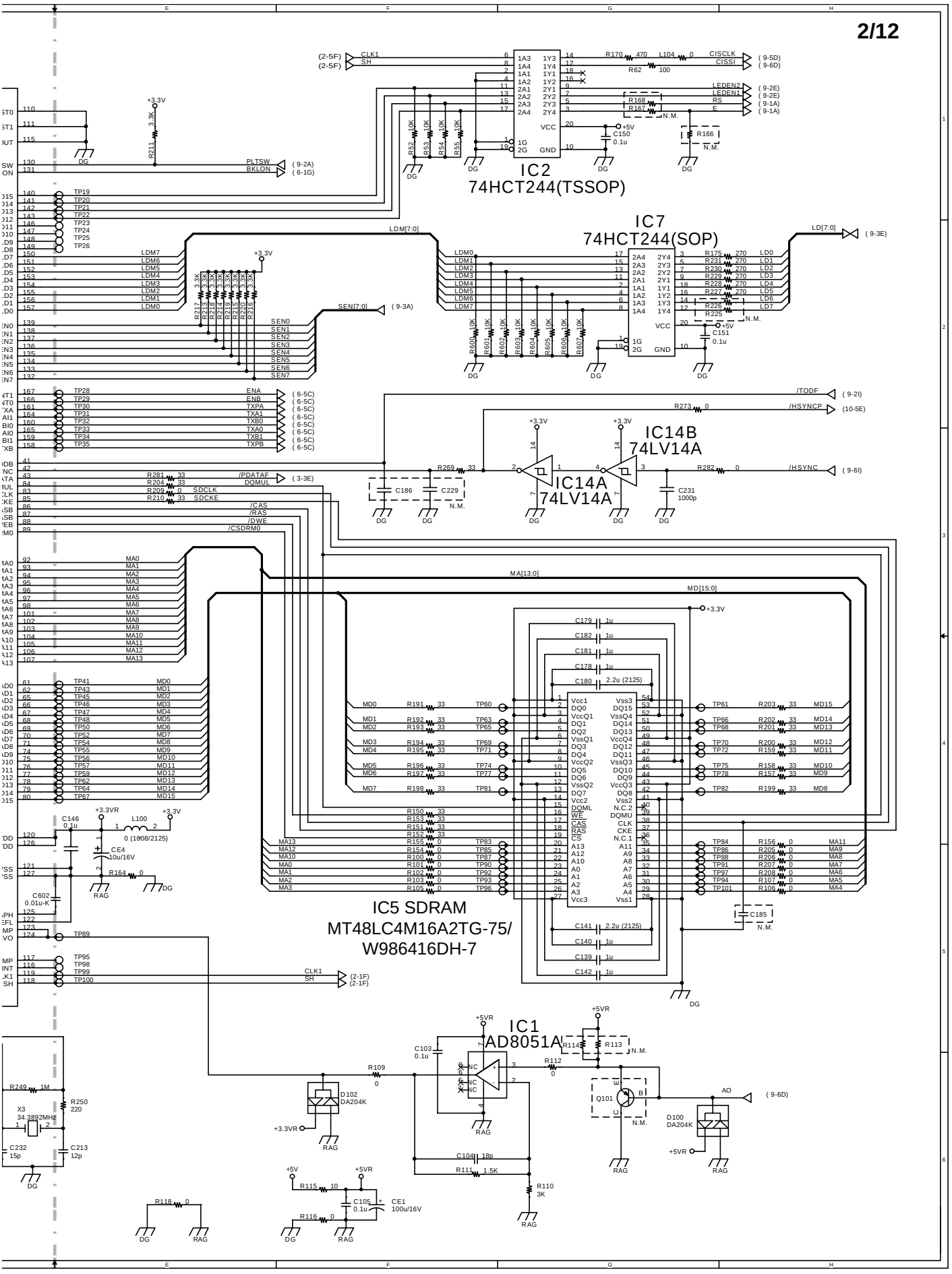
[1] Main Control PWB circuit
CPU block



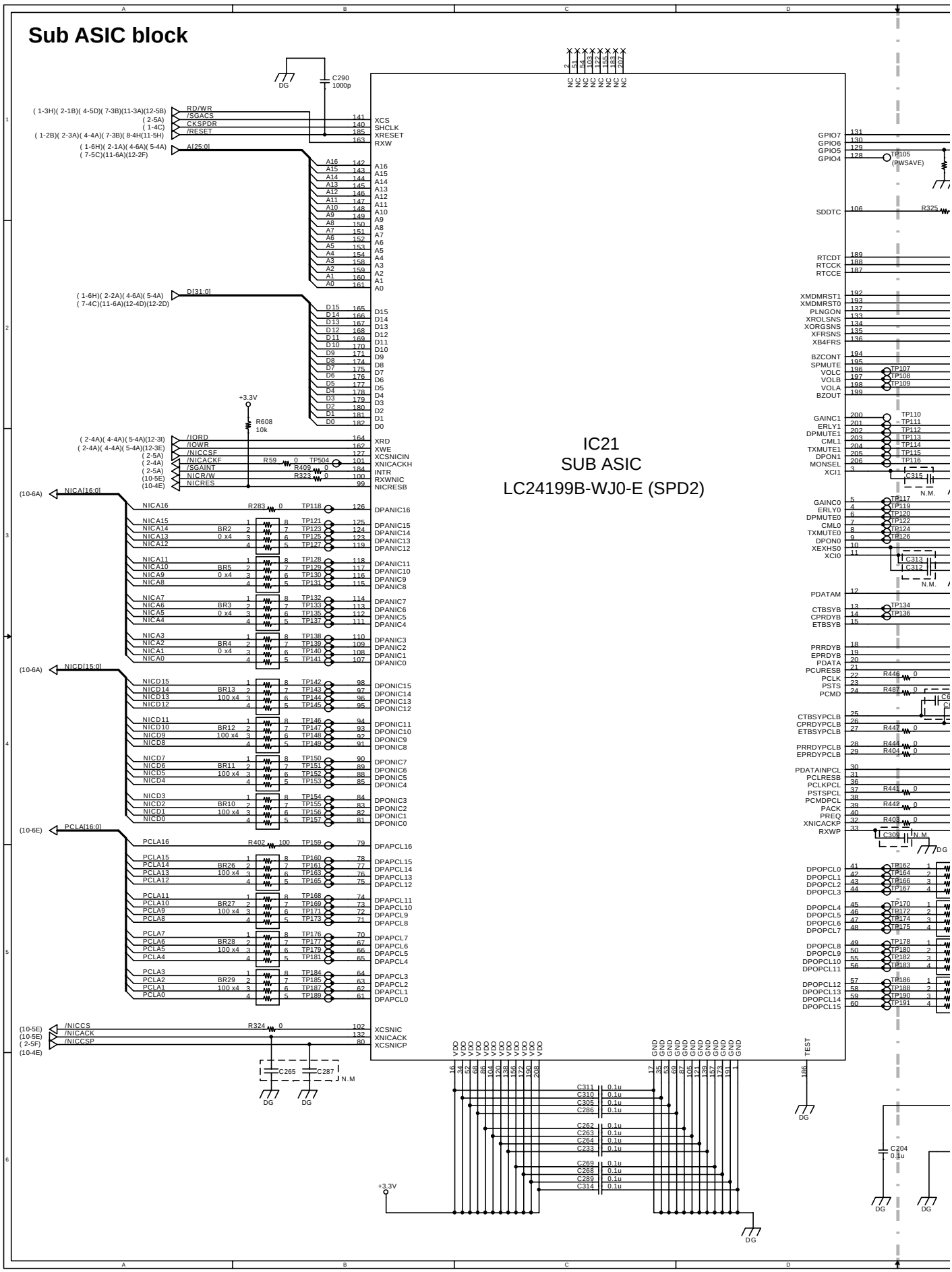

IC24
MAIN CPU
1/12
HD6417706F133
A[25:0]
(2-1A)(3-1A)(4-6A)(5-4A)
(7-5C)(11-6A)(12-2F)
D[31:0]
(2-2A)(3-2A)(4-6A)(5-4A)
(7-4C)(11-6A)(12-4D)(12-2D)
IC16C
IC16E
IC16D
IC16F
74LV14A
+3.3V
C247
0.1u
DEBUG
JP1
NORMAL
N.M.
DG
/CS0J
(2-3A)
C71
/RD
/WE0
/WE1
RD/WR
/BS
/DQMUL
/DQMUU
/CS0
/CS2
/CS3
/CS4
/CS6
/RASL
/CASL
CKE
CRNT0
CRNT1
/WAIT
/DACK0
/DACK1
/DRAK0
/DRAK1
SHADG
+1.9VD
+3.3VSHA
Vcc-PLL
TP15
TP7
TP8
TP9
TP10
TP11
TP12
TP13
TP14
TP16
R303
R335
R336
R301
R295
R332
R294
R292
R297
R451
R452
R453
R449
R426
R425
R427
R450
R424
R61
R341
R340
R339
R338
R337
R346
R345
R344
R347
R348
R349
R421
R420
R419
R418
R342
C17
C21
C20
C25
C24
C22
C19
C238
C11
C16
C23
C13
C10
C14
C236
C15
C12
C18
TP1
TP2
TP3
TP5
R422
R423
R454
R455
R456
R457
R458
R459
R460
R461
R462
R463
R464
R465
R466
R467
R468
R469
R470
R471
R472
R473
R474
R475
R476
R477
R478
R479
R480
R481
R482
R483
R484
R485
R486
R487
R488
R489
R490
R491
R492
R493

Main ASIC block

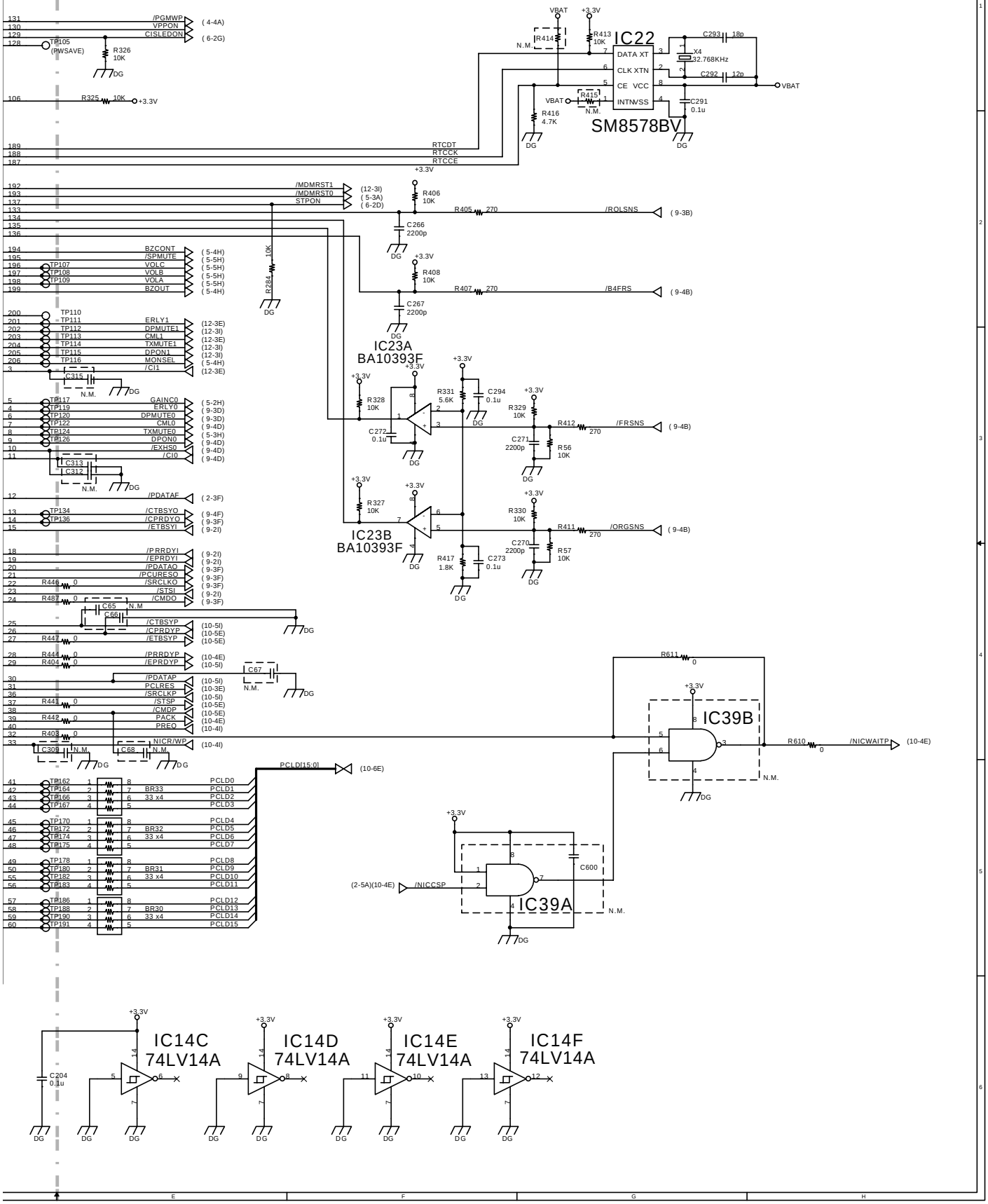


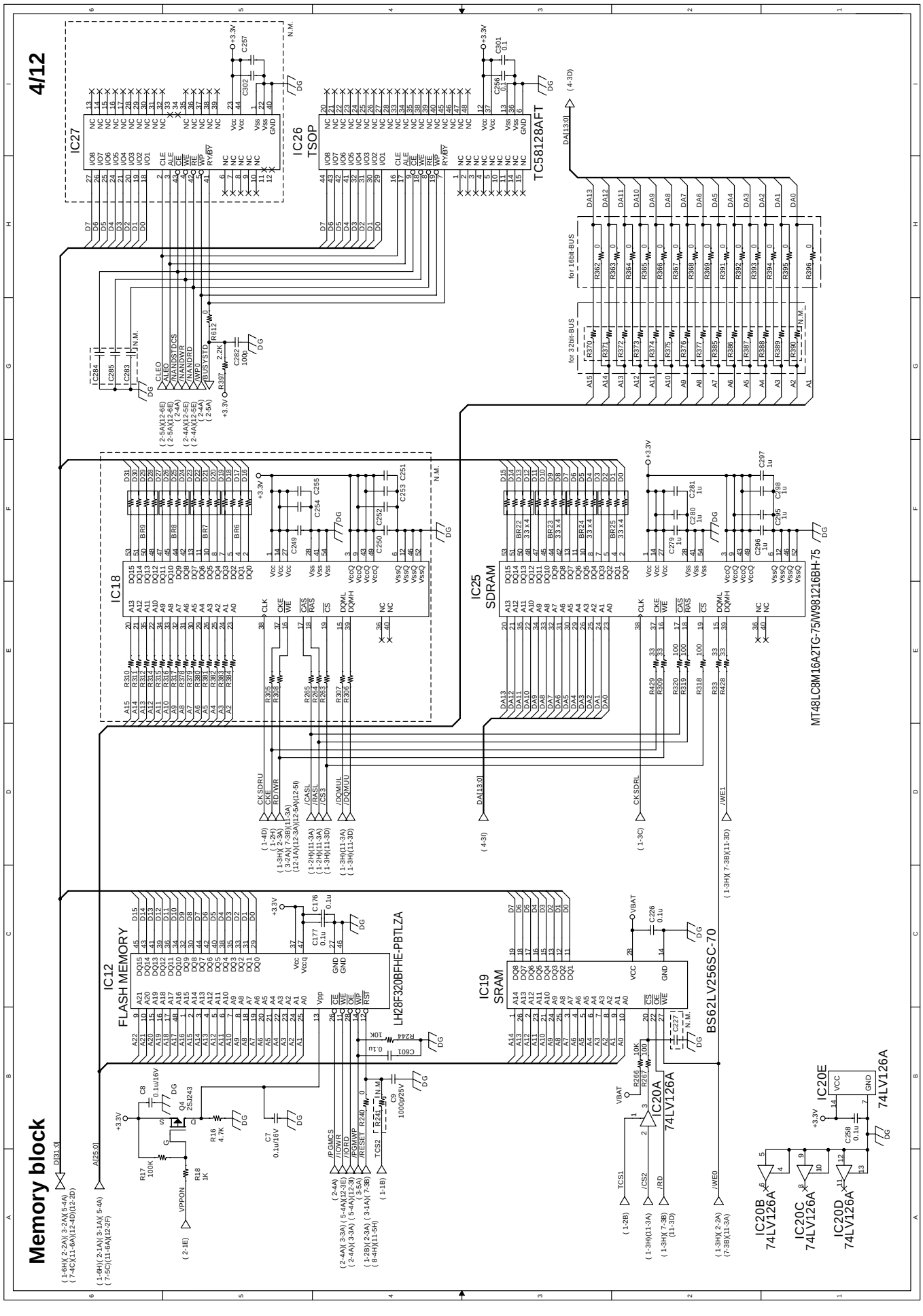

2/12
IC2
74HCT244(TSSOP)
IC7
74HCT244(SOP)
IC14B
74LV14A
IC14A
74LV14A
IC5 SDRAM
MT48LC4M16A2TG-75/
W986416DH-7
IC1
AD8051A
LDM[7:0]
LD[7:0]
SEN[7:0]
MA[13:0]
MD[15:0]
/CAS
/RAS
/DWE
/CSDRM0
/PDATAF
DQMUL
SDCLK
SDCKE
/TODF
/HSYNCP
/HSYNC
PLTSW
BKLON
CISCLK
CISSI
LEDEN2
LEDEN1
RS
E
ENA
ENB
TXPA
TXA1
TXB0
TXA0
TXB1
TXPB
CLK1
SH
AO
X3
34.3892MHz

Sub ASIC block

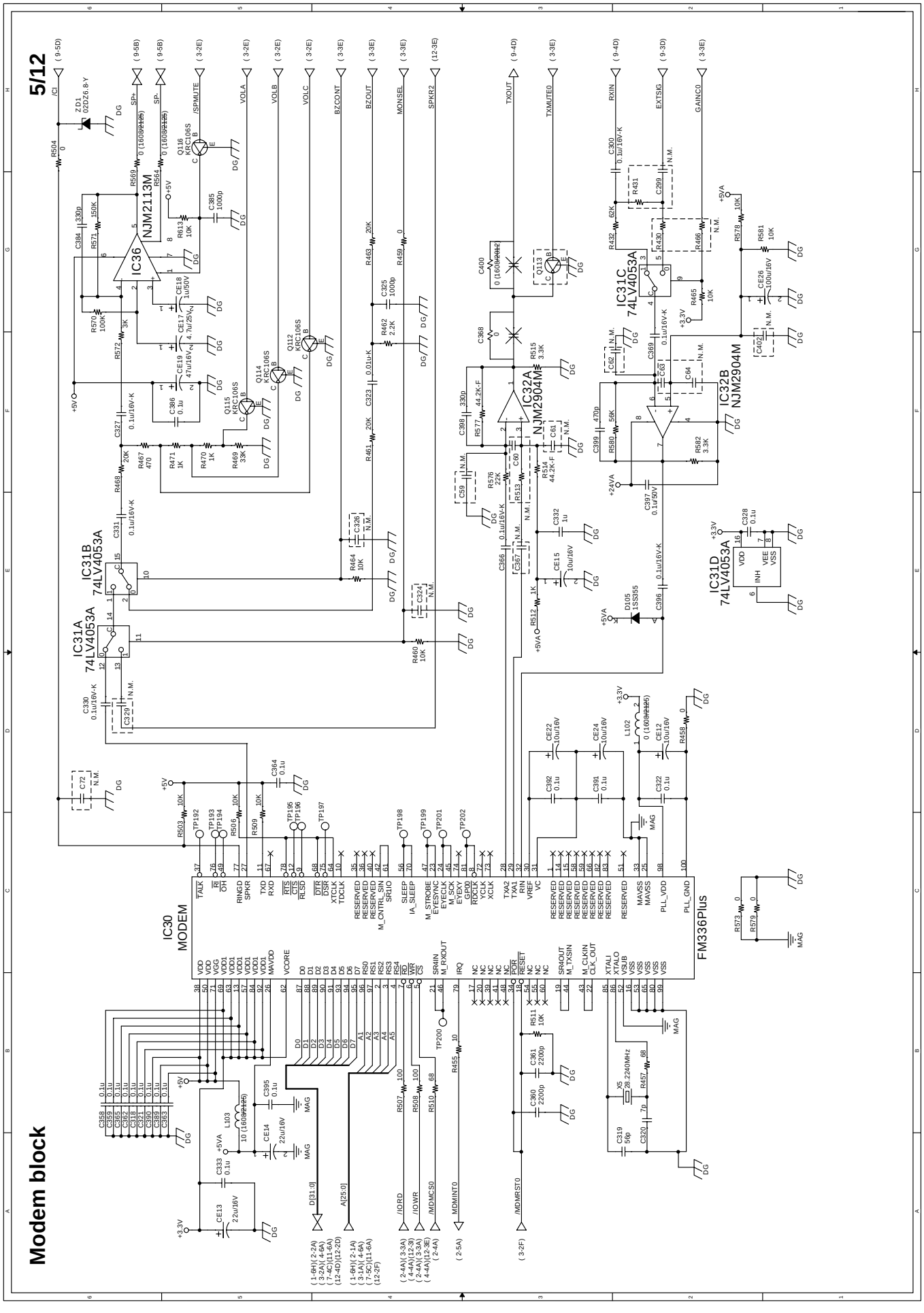


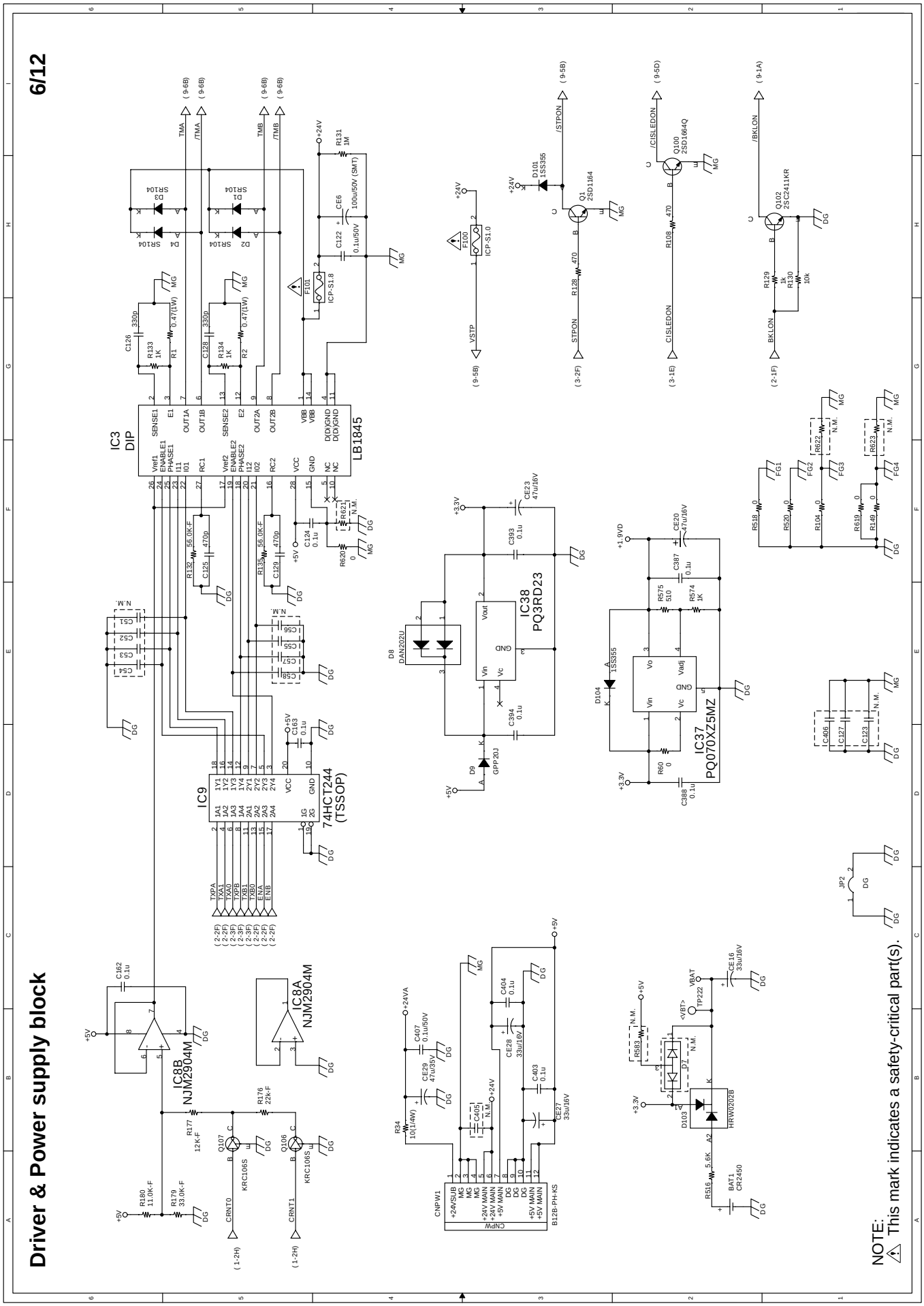
3/12


IC22
SM8578BV
DATA XT
CLK XTN
CE VCC
INTN/VSS
VBAT
+3.3V
X4
32.768KHz
C293 18p
C292 12p
C291 0.1u
R414 N.M.
R413 10K
R415 N.M.
R416 4.7K
RTCDT
RTCCK
RTCCE
/MDMRST1
/MDMRST0
STPON
(12-3I)
(5-3A)
(6-2D)
R406 10K
R405 270
/ROLSNS
(9-3B)
C266 2200p
R408 10K
R407 270
/B4FRS
(9-4B)
C267 2200p
R284 10K
IC23A
BA10393F
R328 10K
R331 5.6K
C294 0.1u
R329 10K
R412 270
/FRSNS
C272 0.1u
C271 2200p
R56 10K
IC23B
BA10393F
R327 10K
R330 10K
R411 270
/ORGSNS
C270 2200p
R57 10K
R417 1.8K
C273 0.1u
BZCONT
/SPMUTE
VOLC
VOLB
VOLA
BZOUT
TP105 (PWSAVE)
R326 10K
R325 10K
/PGMWP
VPPON
CISLEDON
(4-4A)
(6-2G)
TP110
TP111 ERLY1
TP112 DPMUTE1
TP113 CML1
TP114 TXMUTE1
TP115 DPON1
TP116 MONSEL
/CI1
C315 N.M.
TP117 GAINC0
TP119 ERLY0
TP120 DPMUTE0
TP122 CML0
TP124 TXMUTE0
TP126 DPON0
/EXHS0
/CI0
C313
C312
/PDATAF
TP134 /CTBSYO
TP136 /CPRDYO
/ETBSYI
/PRRDYI
/EPRDYI
/PDATAO
/PCURESO
/SRCLKO
/STSI
/CMDO
C65 N.M
C66
/CTBSYP
/CPRDYP
/ETBSYP
/PRRDYP
/EPRDYP
C67 N.M.
/PDATAP
PCLRES
/SRCLKP
/STSP
/CMDP
PACK
PREQ
NICR/WP
C309 N.M.
C68 N.M.
PCLD[15:0]
(10-6E)
BR33
BR32
BR31
BR30
33 x4
PCLD0
PCLD1
PCLD2
PCLD3
PCLD4
PCLD5
PCLD6
PCLD7
PCLD8
PCLD9
PCLD10
PCLD11
PCLD12
PCLD13
PCLD14
PCLD15
R611 0
IC39B
R610 0
/NICWAITP
(10-4E)
N.M.
IC39A
C600
(2-5A)(10-4E)
/NICCSP
C204 0.1u
IC14C
74LV14A
IC14D
74LV14A
IC14E
74LV14A
IC14F
74LV14A
DG


Memory block
4/12
IC27
IC26
TSOP
TC58128AFT
IC18
IC25
SDRAM
MT48LC8M16A2TG-75/W9812I6BH-75
IC12
FLASH MEMORY
LH28F320BFHE-PBTLZA
IC19
SRAM
BS62LV256SC-70
IC20A
74LV126A
IC20B
74LV126A
IC20C
74LV126A
IC20D
74LV126A
IC20E
74LV126A
for 16bit-BUS
for 32bit-BUS
DA[13:0]
DJ[31:0]
AI[25:0]
CK:SDRU
CK:SDRL
/WE1
/WE0
VBAT
+3.3V
N.M.
DG

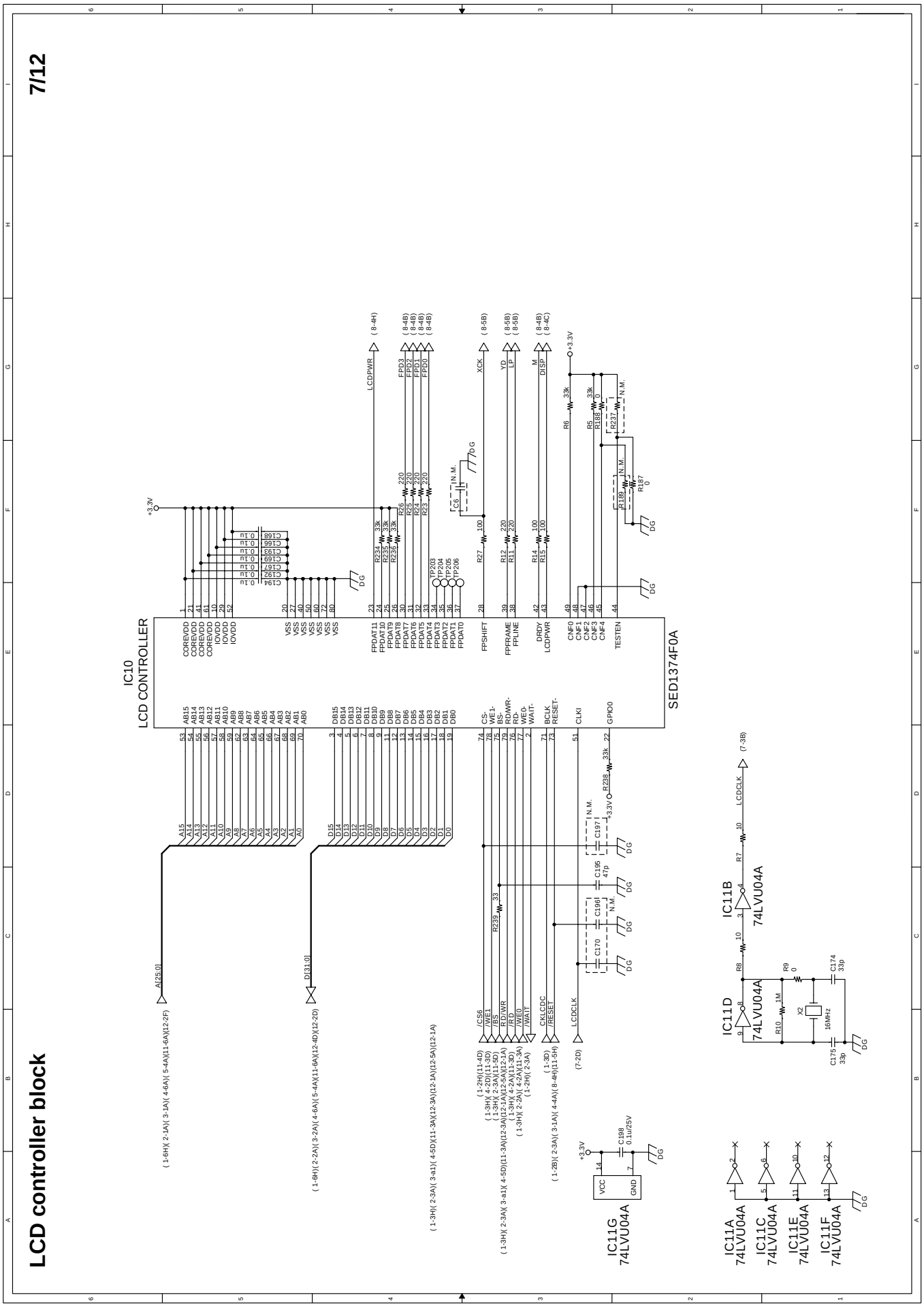
Modem block


5/12
IC30
MODEM
FM336Plus
IC31A
74LV4053A
IC31B
74LV4053A
IC31C
74LV4053A
IC31D
74LV4053A
IC32A
NJM2904M
IC32B
NJM2904M
IC36
NJM2113M


6/12
Driver & Power supply block
IC3
DIP
LB1845
IC9
74HCT244
(TSOP)
IC8A
NJM2904M
IC8B
NJM2904M
IC38
PQ3RD23
IC37
PQ070XZ5MZ
CNPW1
B12B-PH-KS
D103
HRW0202B
BAT1
CR2450
Q107
KRC106S
Q106
KRC106S
Q1
2SD1164
Q100
2SD1664Q
Q102
2SC2411KR
D101
1SS355
D104
1SS355
D8
DAN202U
D9
GPP-20J
F100
ICP-S1.0
F101
ICP-S1.8
JP2
CRNT0
CRNT1
VSTP
STPON
CISLEDON
BKLON
/STPON
/CISLEDON
/BKLON
TMA
/TMA
TMB
/TMB
+5V
+24V
+3.3V
+1.9VD
DG
MG
NOTE:
⚠ This mark indicates a safety-critical part(s).

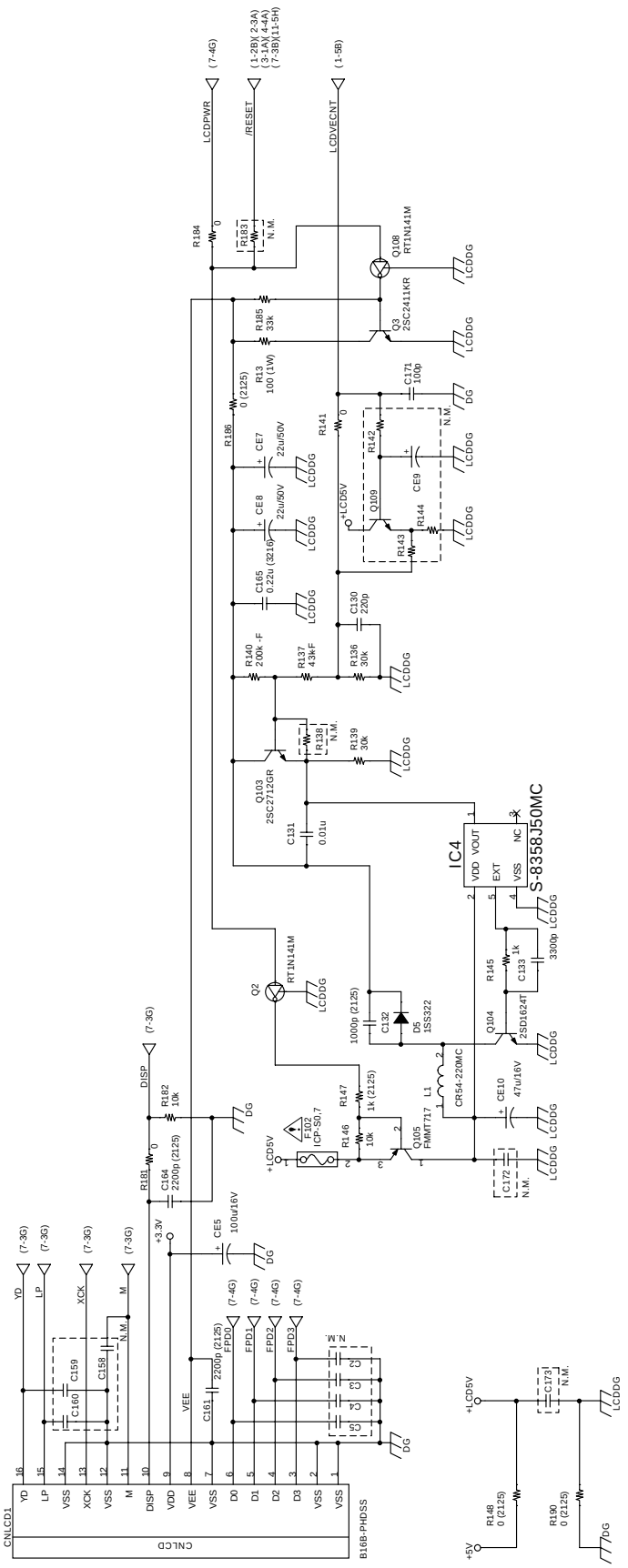
LCD controller block

7/12

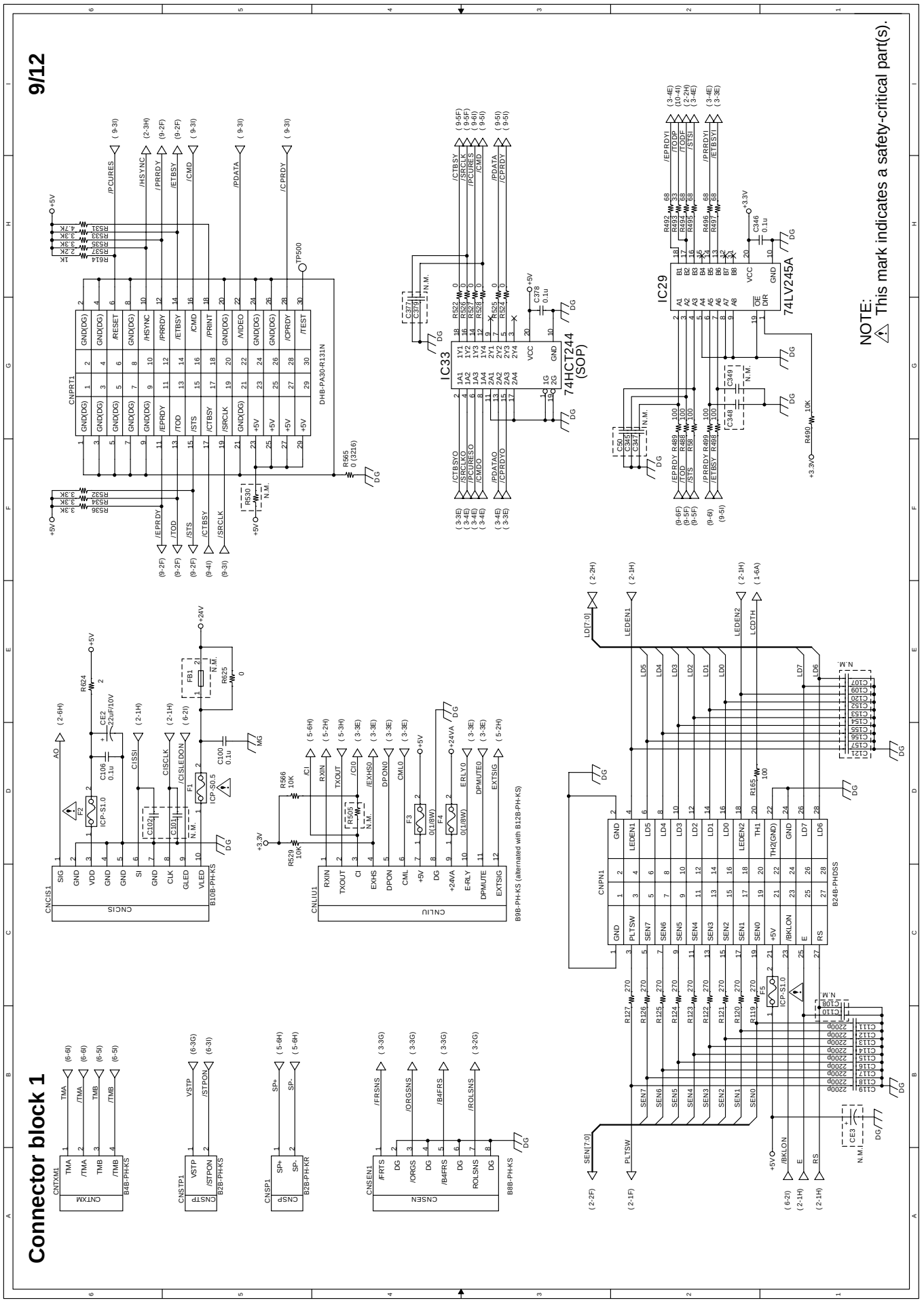


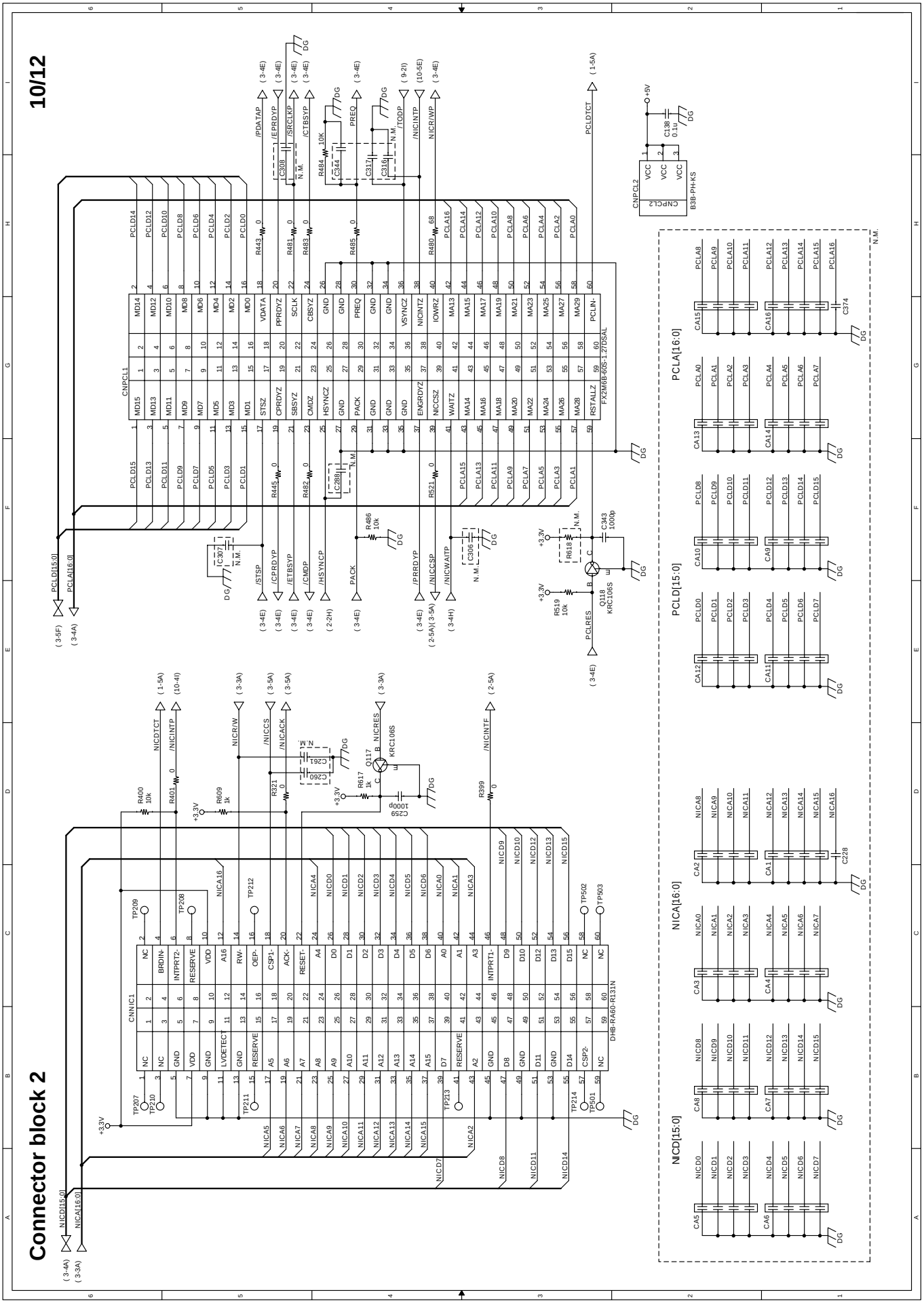
LCD power control block

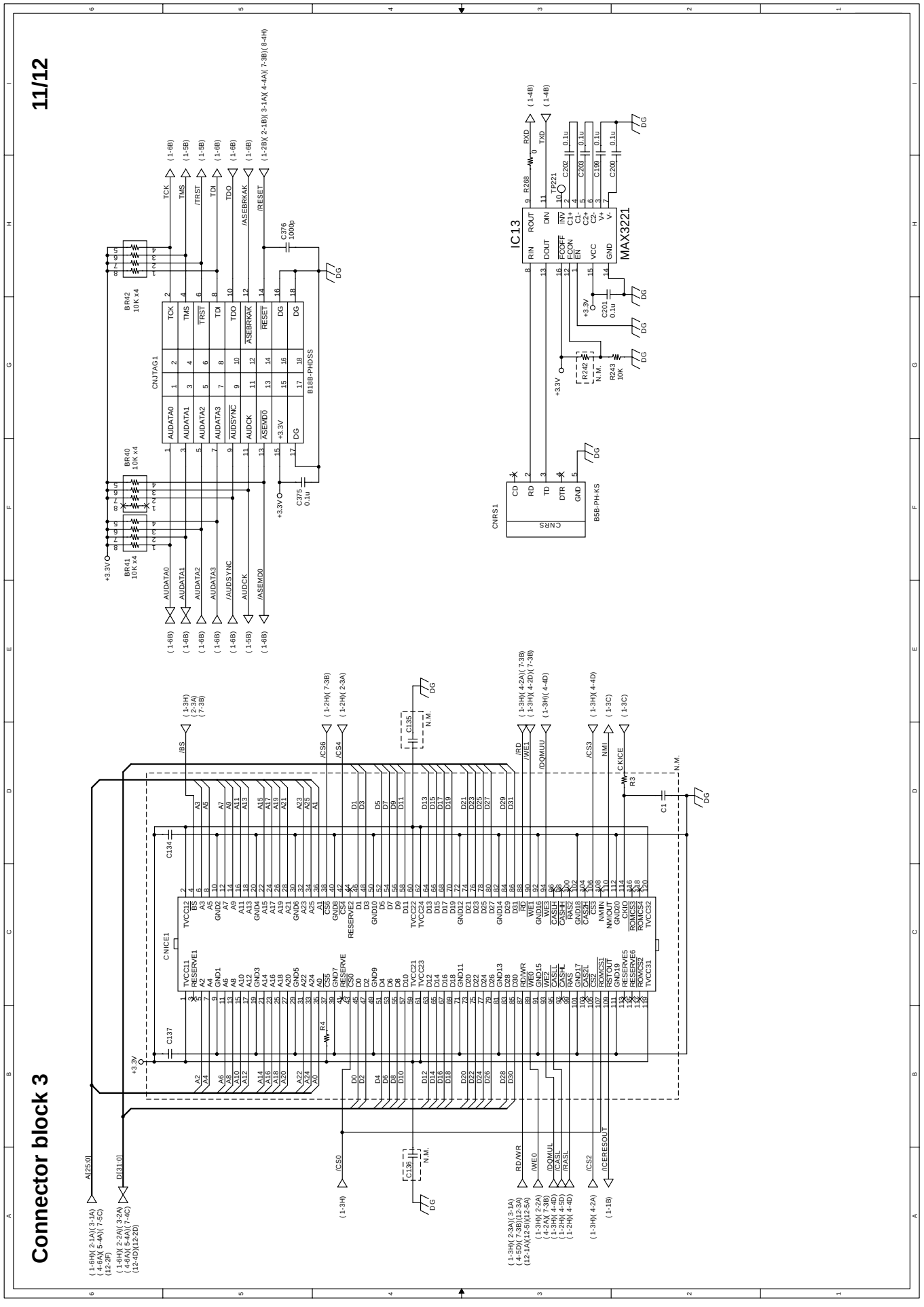
8/12

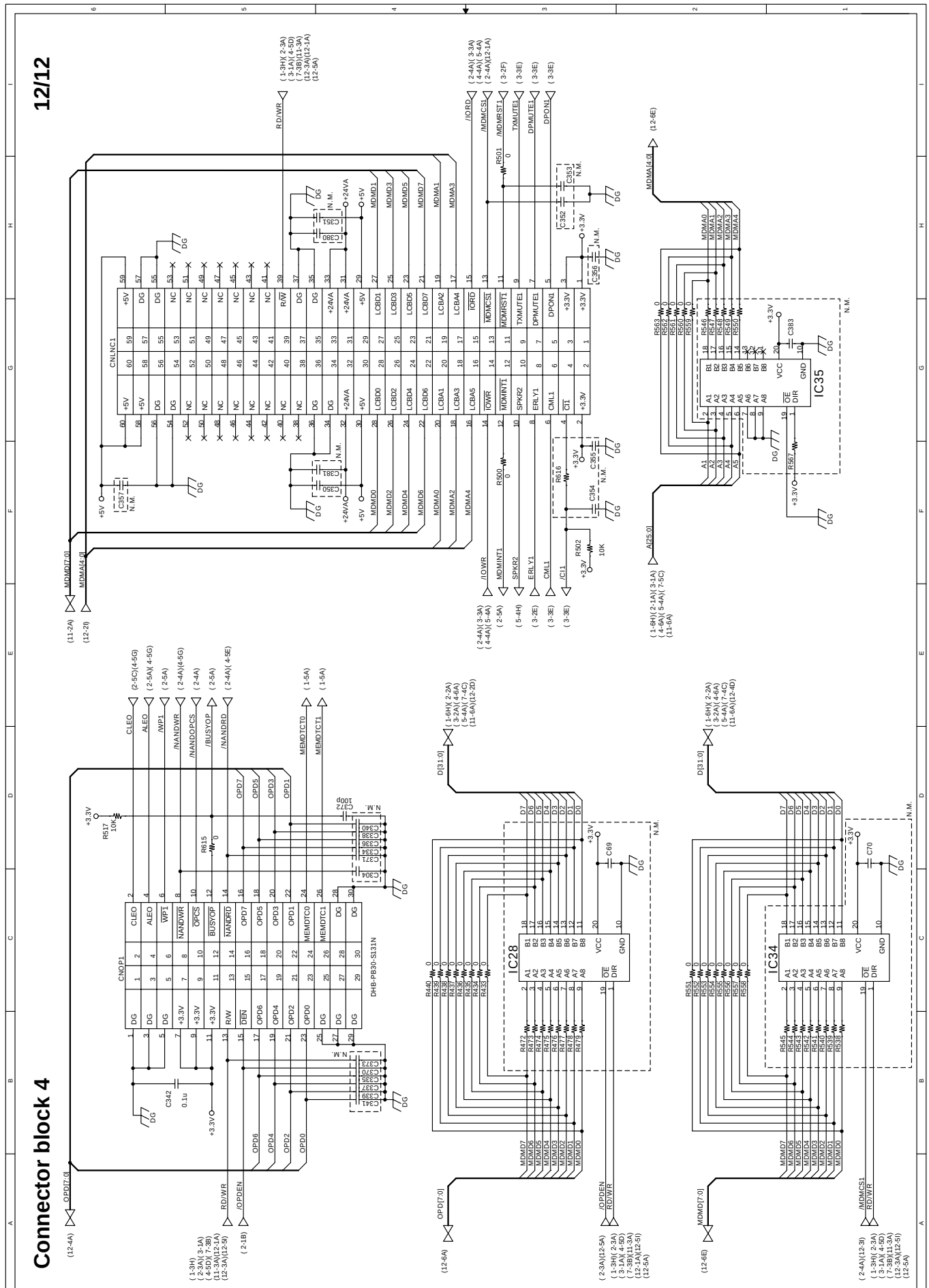


NOTE:
⚠ This mark indicates a safety-critical part(s).

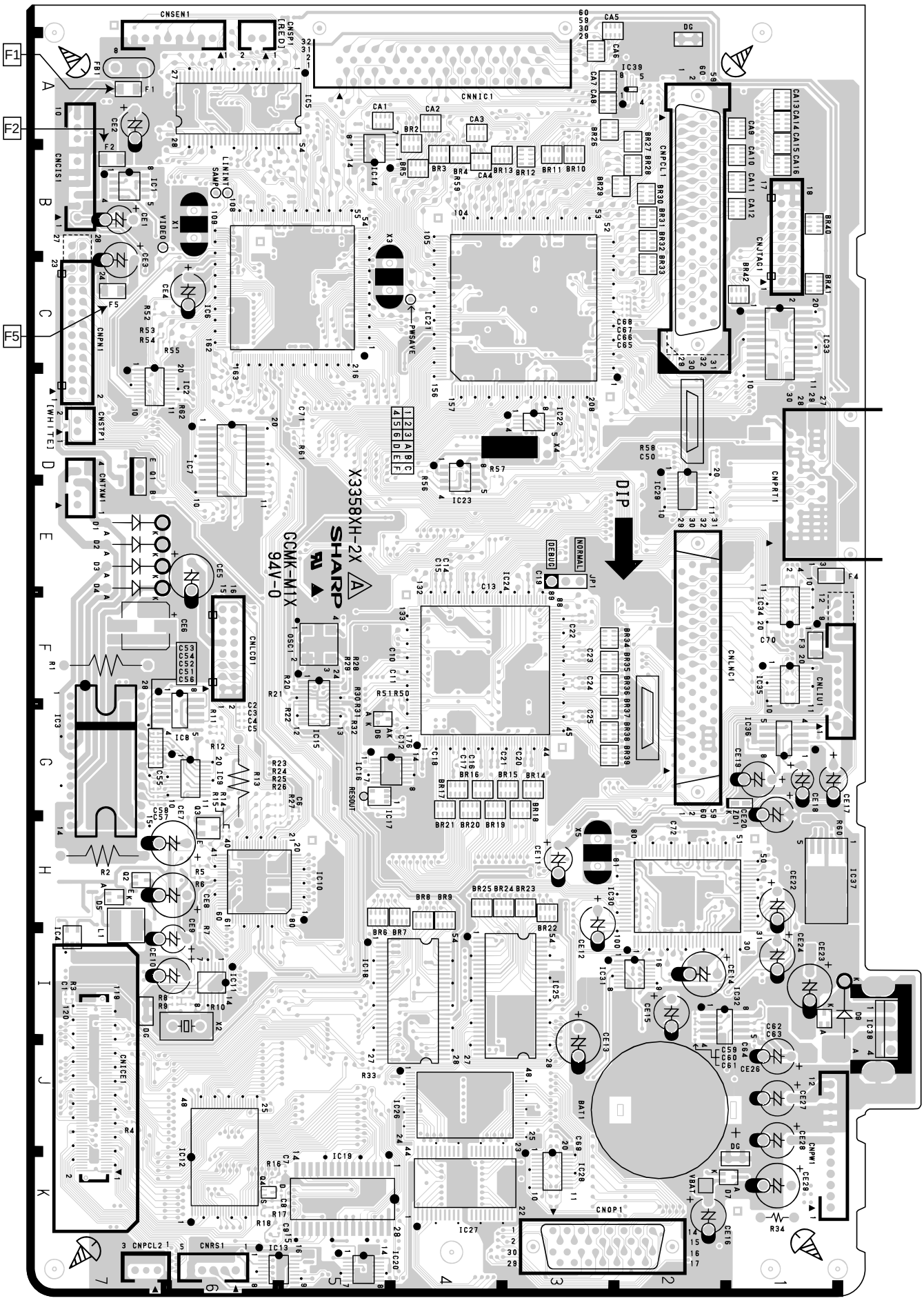

9/12
Connector block 1
NOTE:
⚠ This mark indicates a safety-critical part(s).
CNPRT1
DHB-PA30-R131N
IC33
74HCT244 (SOP)
IC29
74LV245A
CNCIS1
B10B-PH-KS
CNLIU1
B9B-PH-KS (alternated with B12B-PH-KS)
CNPN1
B24B-PHDSS
CNTXM1
B4B-PHKS
CNSTP1
B2B-PHKS
CNSP1
B2B-PH-KR
CNSEN1
B8B-PHKS


10/12
Connector block 2
CNPCL1
FX2M6B-60S-1.27DSAL
CNPCL2
B3B-PH-K-S
CNNIC1
DHB-RA60-R131N
NICD[15:0]
NICA[16:0]
PCLD[15:0]
PCLA[16:0]
N.M.
DG

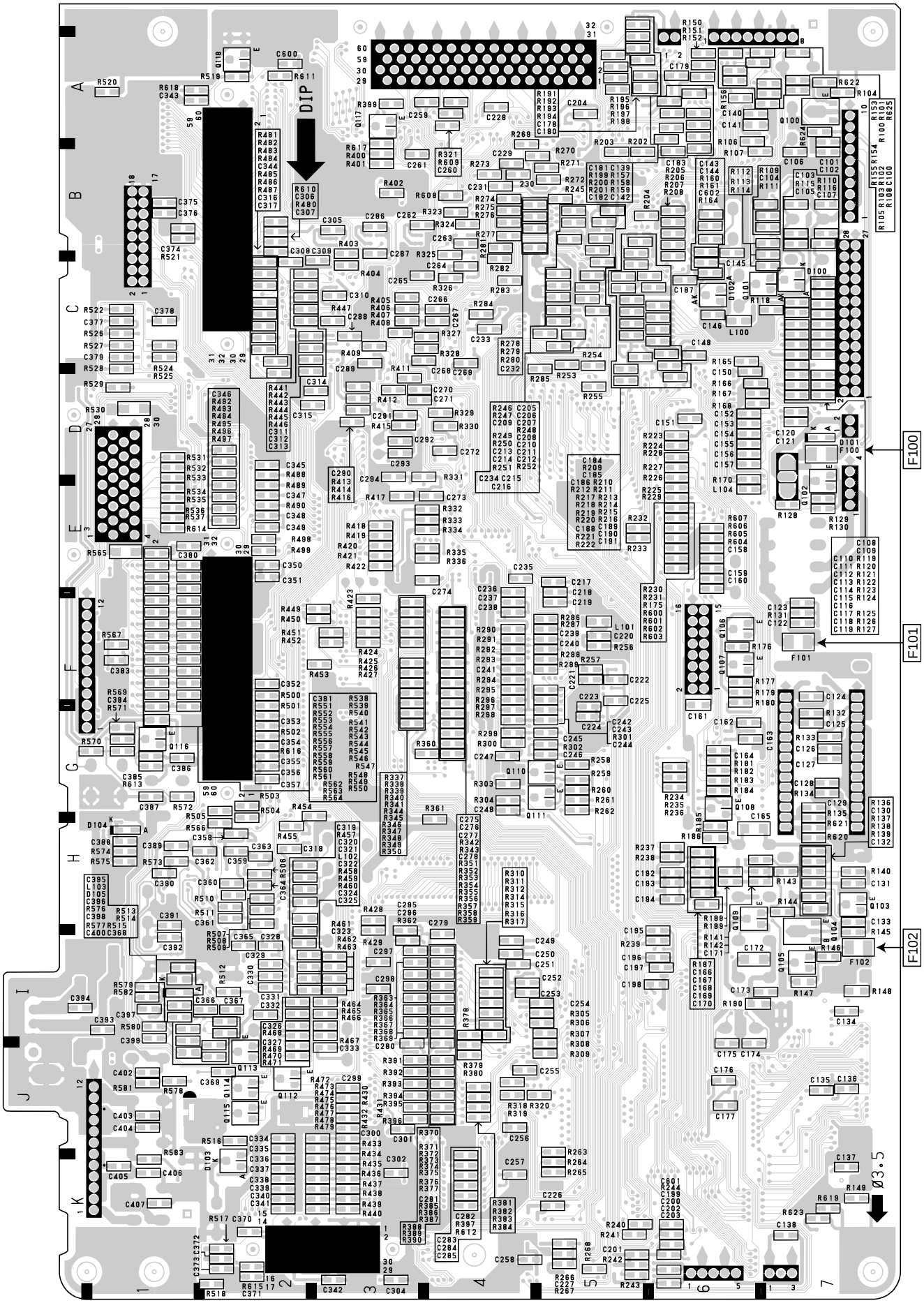

11/12
Connector block 3
CNJTAG1
B18B-PHDSS
BR40 10K x4
BR41 10K x4
BR42 10K x4
IC13
MAX3221
CNRS1
B5B-PH-KS
C NICE1
TCK
TMS
/TRST
TDI
TDO
/ASEBRKAK
/RESET
AUDATA0
AUDATA1
AUDATA2
AUDATA3
/AUDSYNC
AUDCK
/ASEMD0
+3.3V
DG
/BS
/CS6
/CS4
/CS0
/CS1
/CS2
/CS3
/RD
/WE1
/DQMUU
/DQMUL
/WE0
RD/WR
NMI
C NICE
/RESET
N.M.

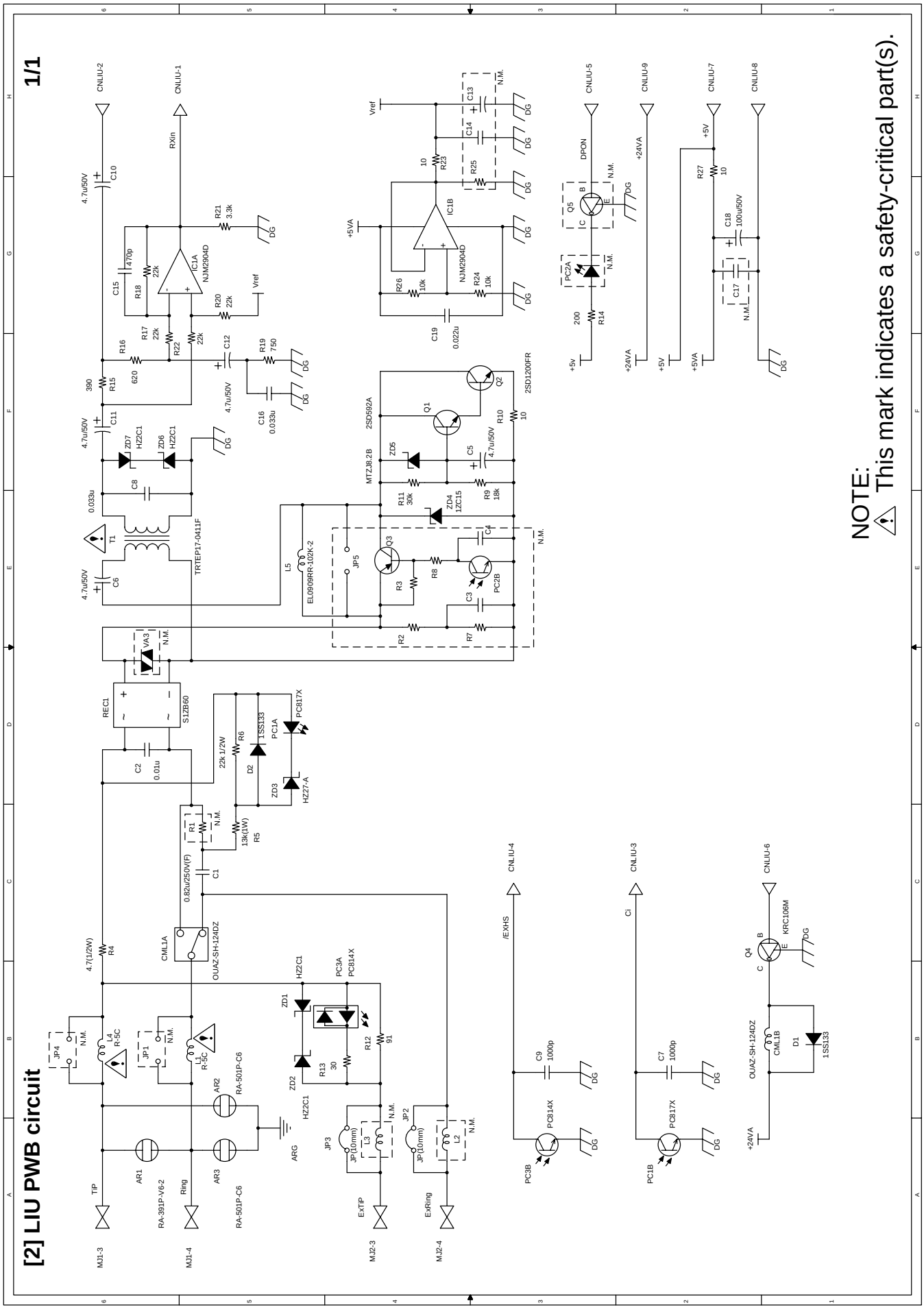

12/12
Connector block 4
CNOP1
DHB-PB30-S131N
CNLNC1
IC28
IC34
IC35
MDMD[7:0]
MDMA[4:0]
OPD[7:0]
D[31:0]
/OPDEN
RD/WR
/MDMCS1
/IOWR
/IORD
/MDMRST1
TXMUTE1
DPMUTE1
DPON1
MDMINT1
SPKR2
ERLY1
CML1
/CI1
CLEO
ALEO
/WP1
/NANDWR
/NANDOPCS
/BUSYOP
/NANDRD
MEMDTC0
MEMDTC1
N.M.

Control PWB parts layout (Top side)

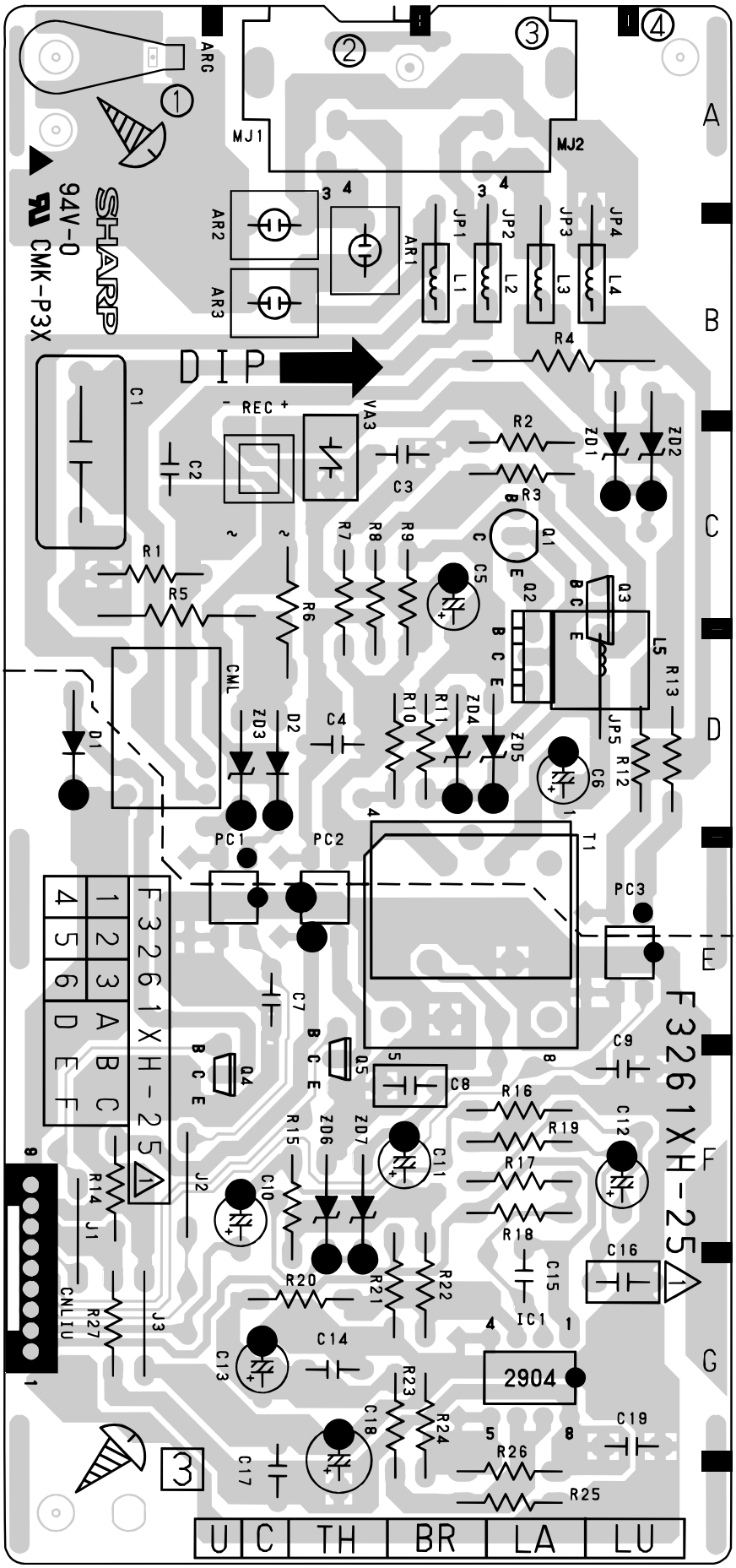


Control PWB parts layout (Bottom side)

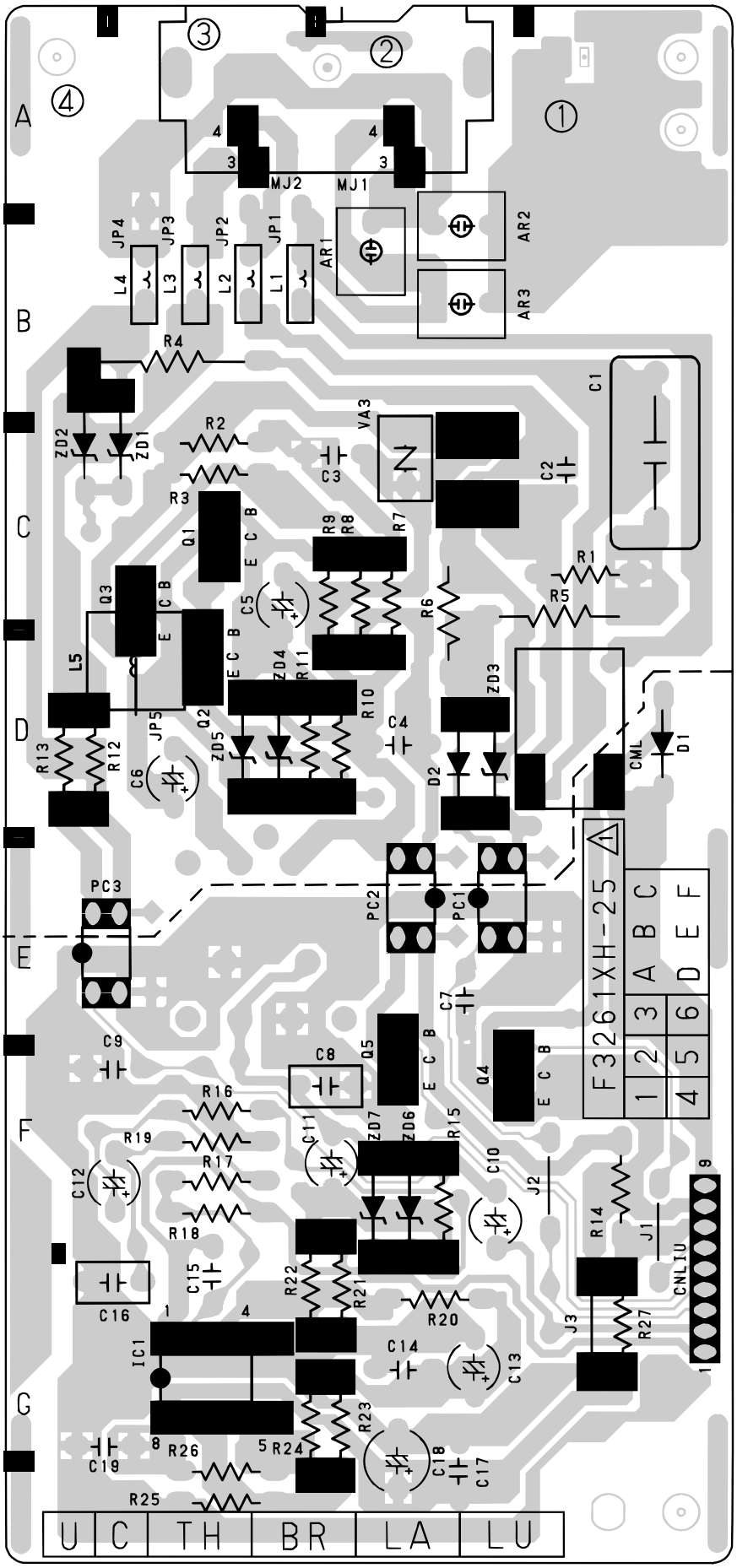


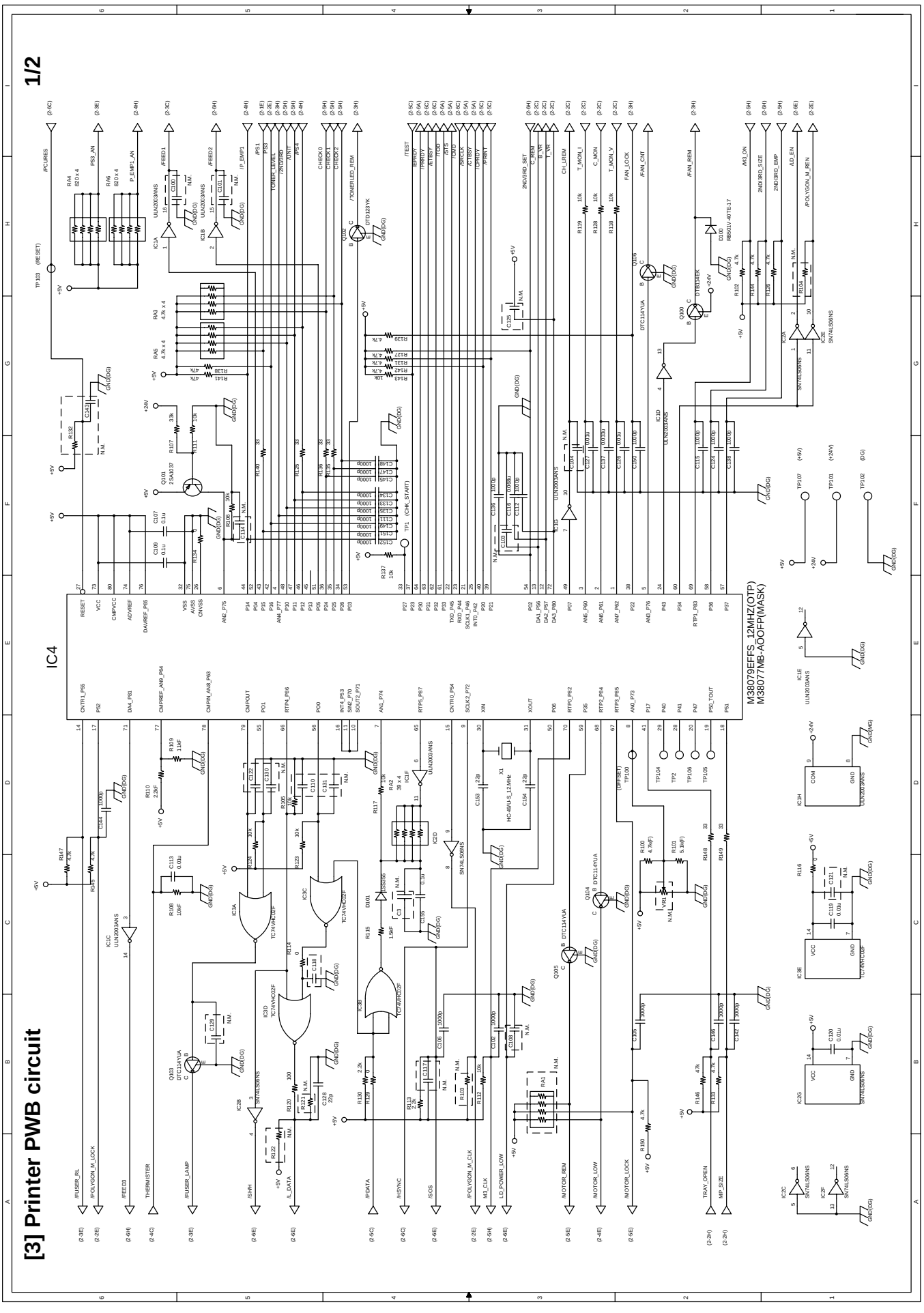

1/1
[2] LIU PWB circuit
NOTE:
⚠ This mark indicates a safety-critical part(s).
CNLIU-1
CNLIU-2
CNLIU-3
CNLIU-4
CNLIU-5
CNLIU-6
CNLIU-7
CNLIU-8
CNLIU-9
RXin
Vref
DPON
+24VA
+5V
+5VA
/EXHS
Ci
TIP
Ring
ExTIP
ExRing
ARG
MJ1-3
MJ1-4
MJ2-3
MJ2-4
T1
TRTEP17-0411F
REC1
S12B60
CML1A
OUAZ-SH-124DZ
CML1B
IC1A
IC1B
NJM2904D
Q1
Q2
Q3
Q4
Q5
2SD592A
2SD1200FR
KRC106M
PC1A
PC1B
PC2A
PC2B
PC3A
PC3B
PC814X
PC817X
AR1
AR2
AR3
RA-391P-V6-2
RA-501P-C6
L1
L2
L3
L4
L5
JP1
JP2
JP3
JP4
JP5
D1
D2
ZD1
ZD2
ZD3
ZD4
ZD5
ZD6
ZD7
VA3
1SS133
HZ27-A
HZ2C1
MTZJ8.2B
1C15
EL0909RR-102K-2
N.M.

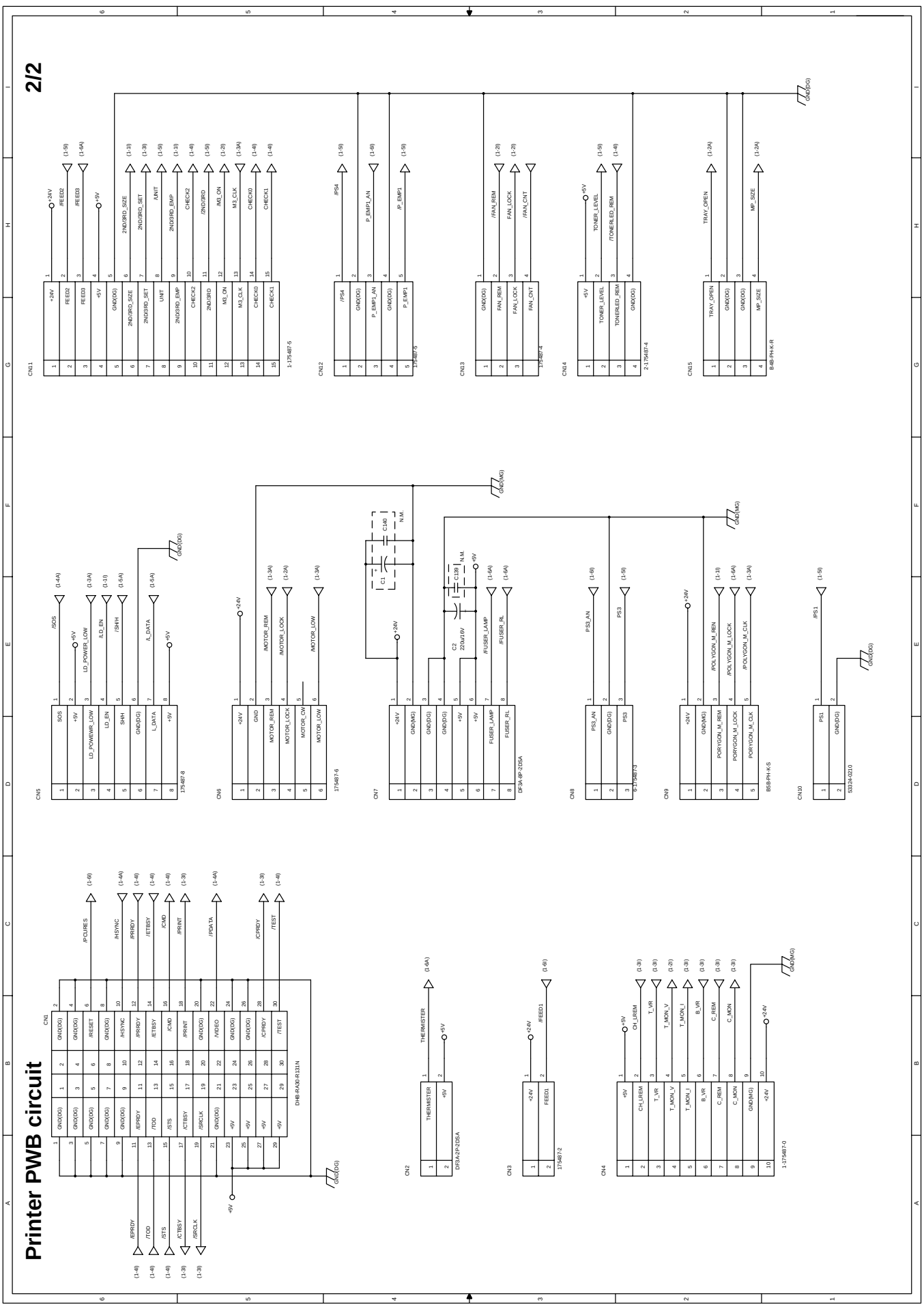
LIU PWB parts layout (Top side)



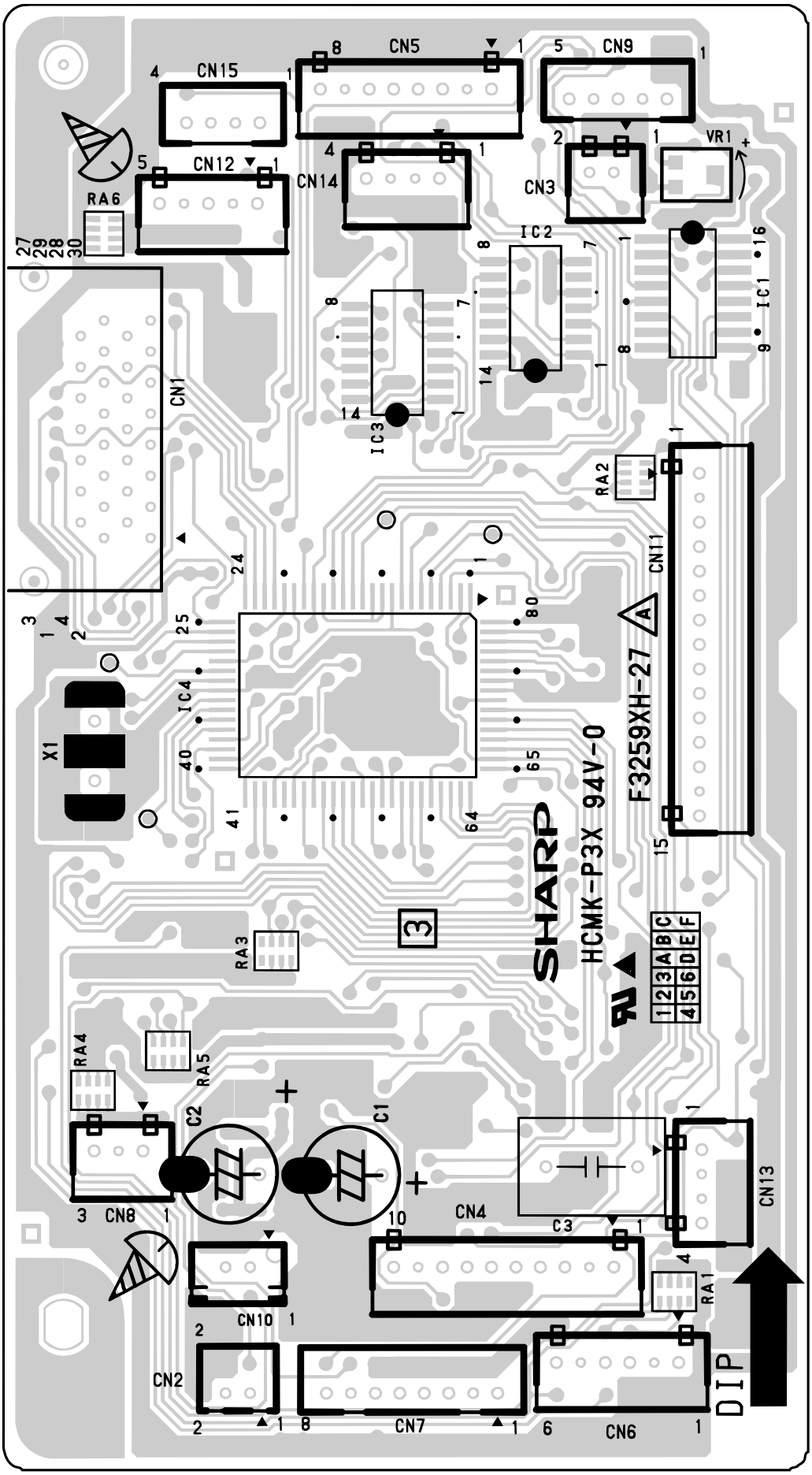
LIU PWB parts layout (Bottom side)



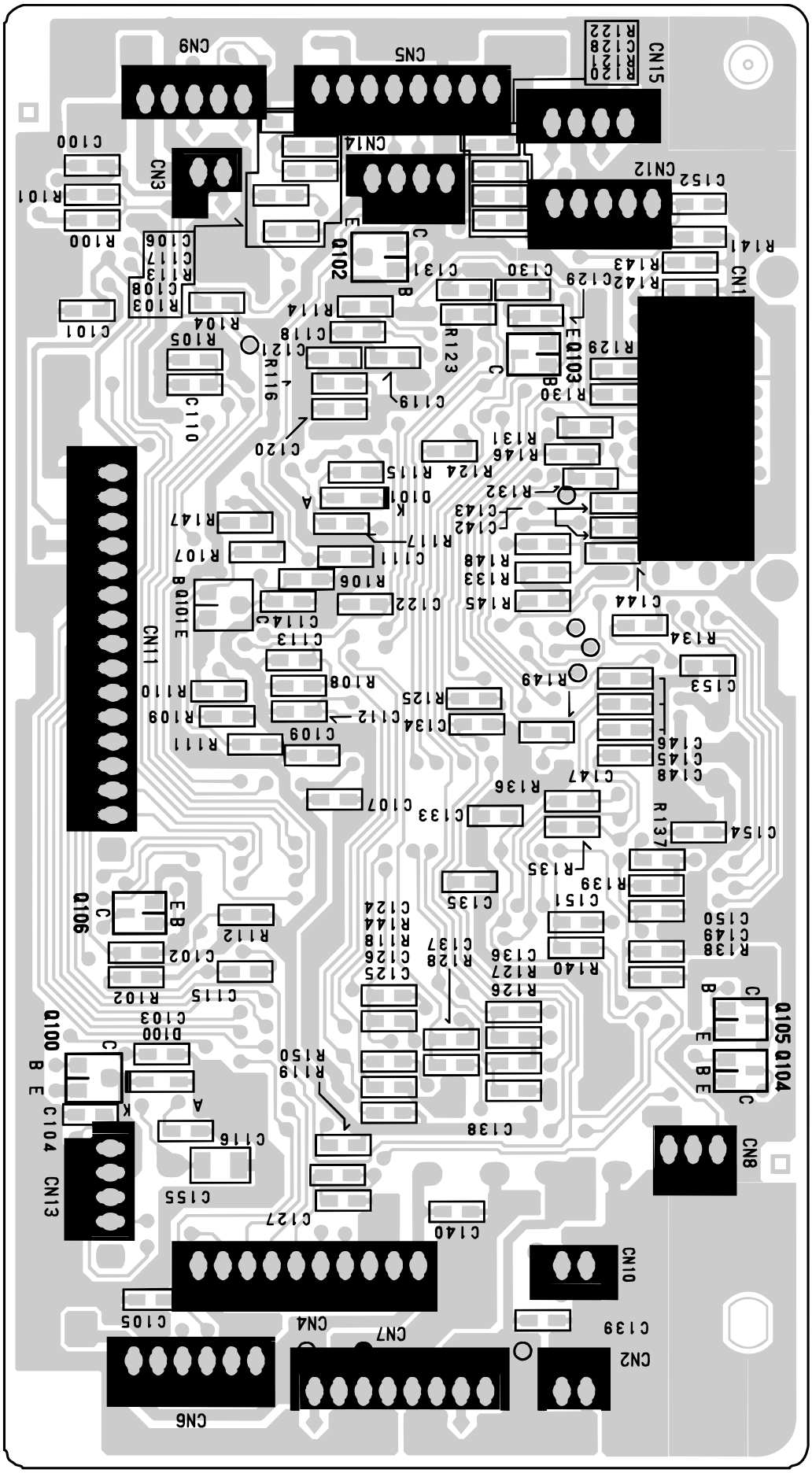

[3] Printer PWB circuit
1/2
IC4
M38079EFFS_12MHZ(OTP)
M38077MB-AOOFP(MASK)


Printer PWB circuit
2/2
CN1
DHR-RA30-R131N
CN2
DF3A-2P-2DSA
CN3
1754872
CN4
1-175487-0
CN5
175487-8
CN6
175487-6
CN7
DF3A-8P-2DSA
CN8
6-175487-3
CN9
B5B-PH-K-S
CN10
S3324-0210
CN11
1-175487-5
CN12
175487-5
CN13
175487-4
CN14
2-175487-4
CN15
B4B-PH-K-R
GND(DG)
GND(MG)
+24V
+5V
/RESET
/HSYNC
/PRRDY
/ETBSY
/CMD
/PRINT
/VDEO
/CPRDY
/TEST
/PCURE.S
/PDATA
/ERDY
/TOD
/STS
/CTBSY
/SRCLK
THERMISTER
CH_LREM
T_VR
T_MON_V
T_MON_I
B_VR
C_REM
C_MON
/FEED1
/FEED2
/FEED3
/SOS
LD_POWERR_LOW
LD_EN
/SHH
/L_DATA
/MOTOR_REM
/MOTOR_LOCK
/MOTOR_CW
/MOTOR_LOW
/FUSER_LAMP
/FUSER_RL
C1
C140
N.M.
C2
220u/16V
C139
PS3_AN
PS3
/POLYGON_M_REM
/POLYGON_M_LOCK
/POLYGON_M_CLK
/PS1
/PS4
P_EMP1_AN
/P_EMP1
/FAN_REM
FAN_LOCK
/FAN_CNT
TONER_LEVEL
/TONERLED_REM
TRAY_OPEN
MP_SIZE
2ND/3RD_SIZE
2ND/3RD_SET
/UNIT
2ND/3RD_EMP
CHECK2
2ND/3RD
M3_ON
M3_CLK
CHECK0
CHECK1

Printer PWB parts layout (Top side)

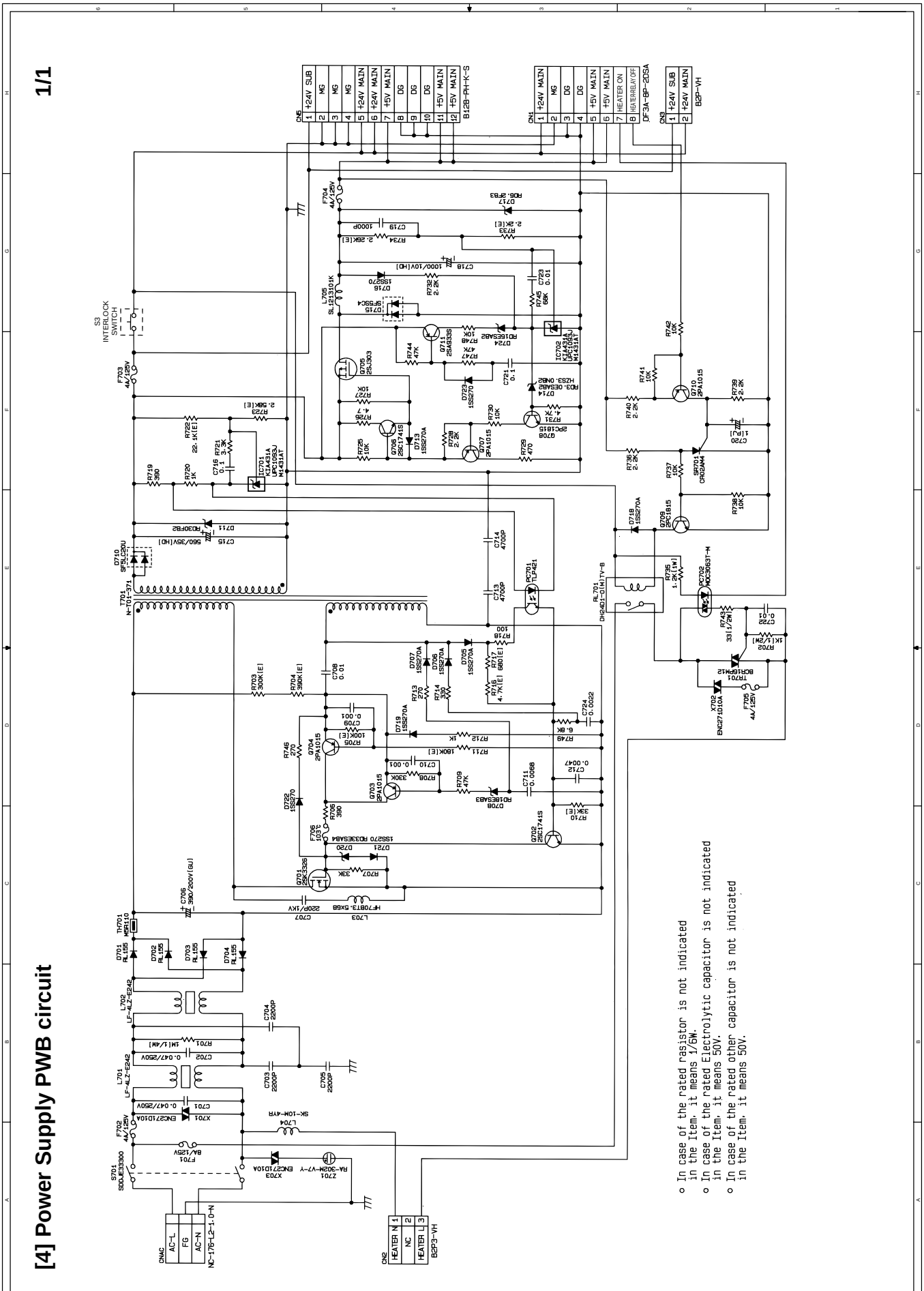


Printer PWB parts layout (Bottom side)

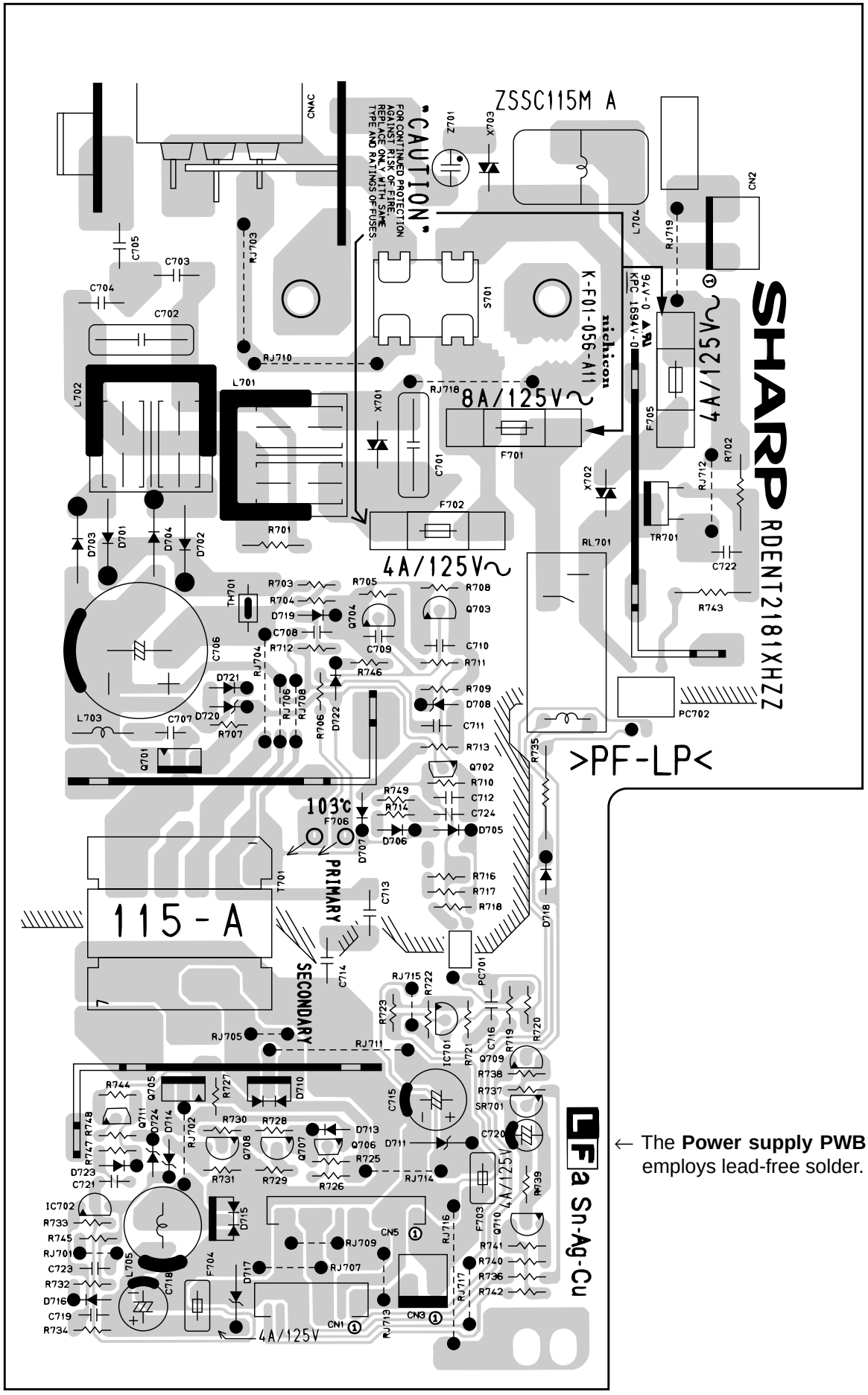


[4] Power Supply PWB circuit

1/1



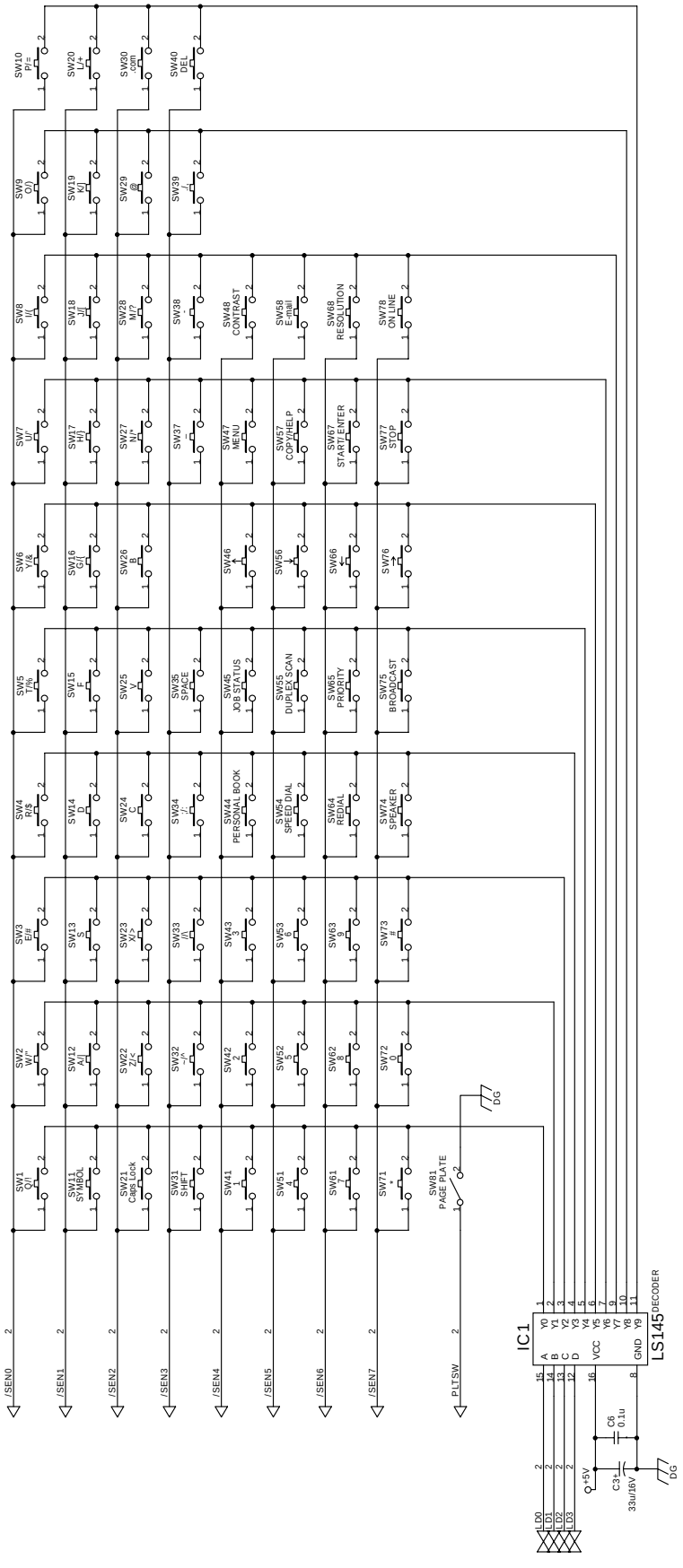
Power Supply PWB parts layout



← The **Power supply PWB** of this model employs lead-free solder.

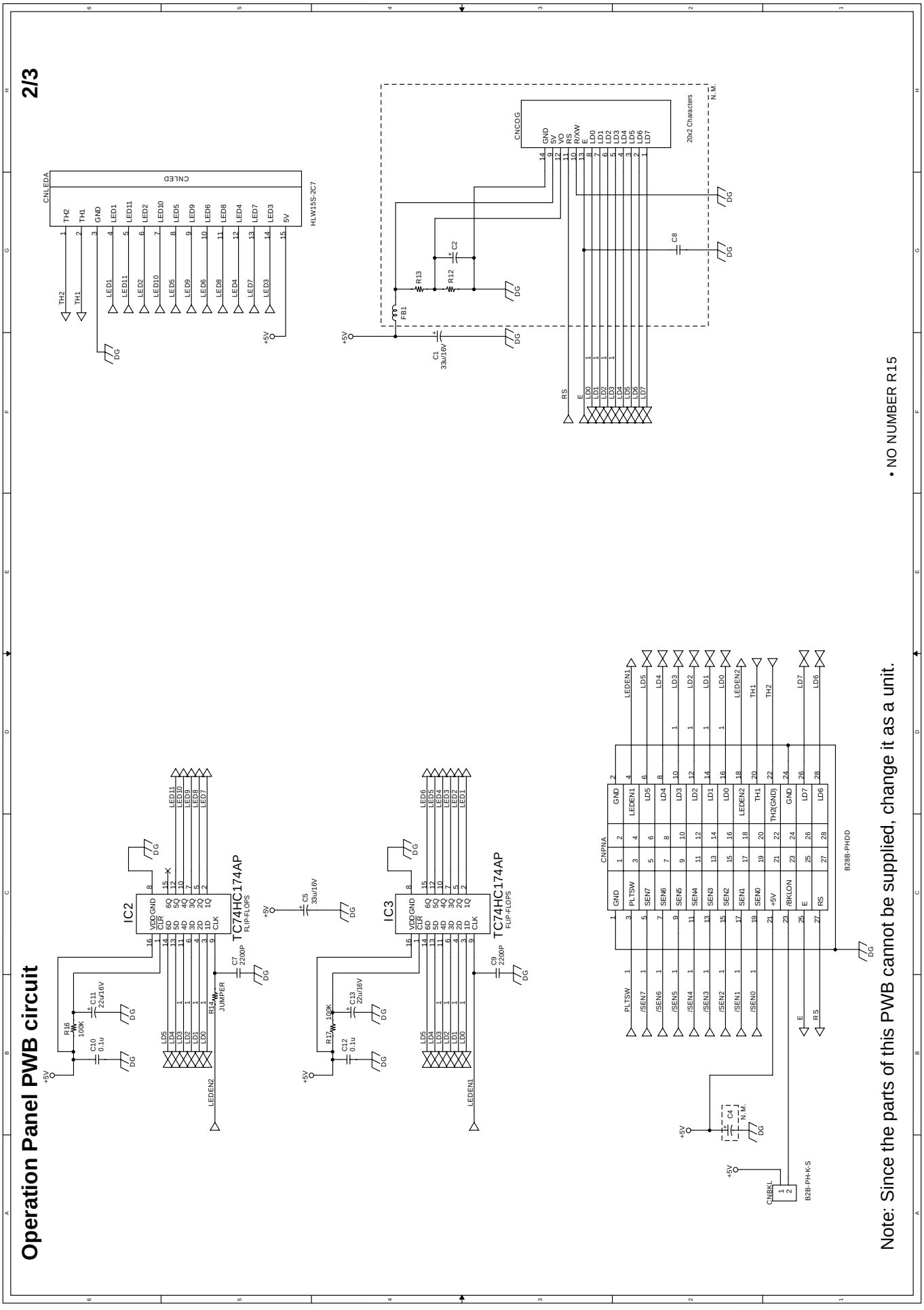
[5] Operation Panel PWB circuit

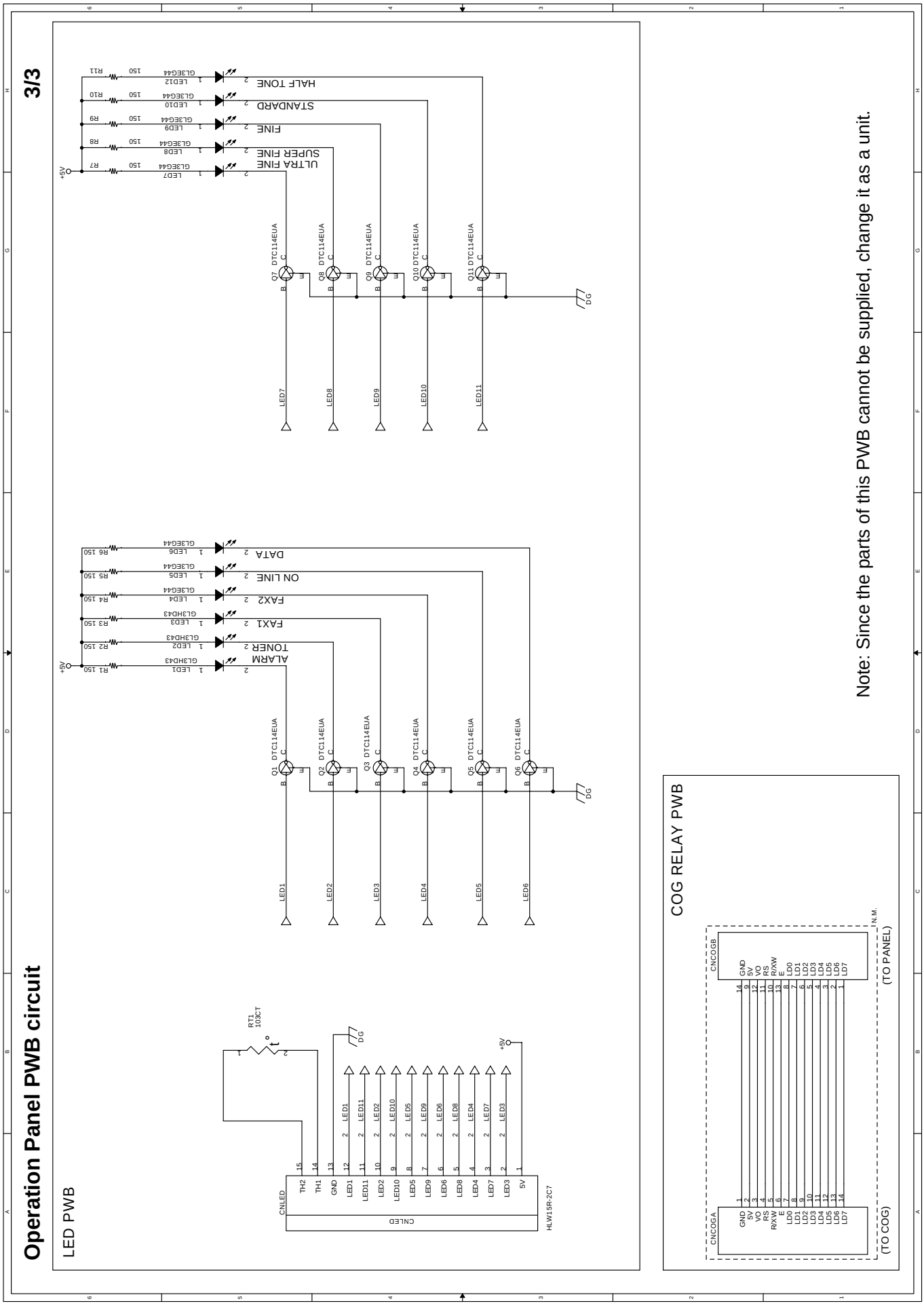
1/3



Note: Since the parts of this PWB cannot be supplied, change it as a unit.

- NO NUMBER SW36,49,50,59,60,69,70,79,80

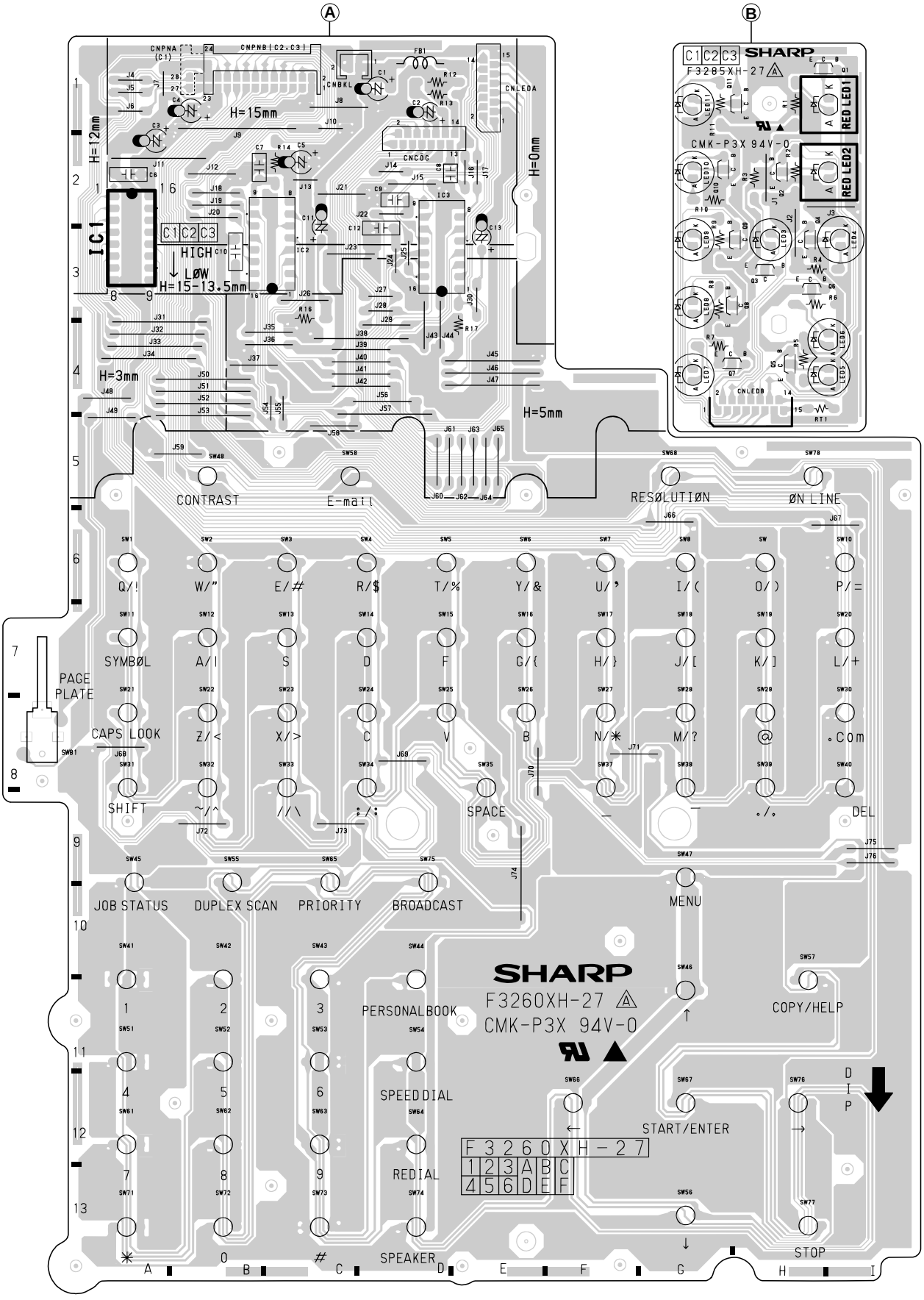

Operation Panel PWB circuit
2/3
CNLED
HLW155-2C7
CNCOG
20x2 Characters
N.M.
IC2
IC3
TC74HC174AP
FLIP-FLOPS
CNPNA
B28B-PHDD
CNBKL
B2B-PH-K-S
• NO NUMBER R15
Note: Since the parts of this PWB cannot be supplied, change it as a unit.


Operation Panel PWB circuit
3/3
LED PWB
HALF TONE
STANDARD
FINE
SUPER FINE
ULTRA FINE
DATA
ON LINE
FAX2
FAX1
TONER
ALARM
+5V
DG
CNLED
HLW15R-2C7
RT1
103CT
COG RELAY PWB
CNCOGA
CNCOGB
(TO COG)
(TO PANEL)
N.M.
Note: Since the parts of this PWB cannot be supplied, change it as a unit.

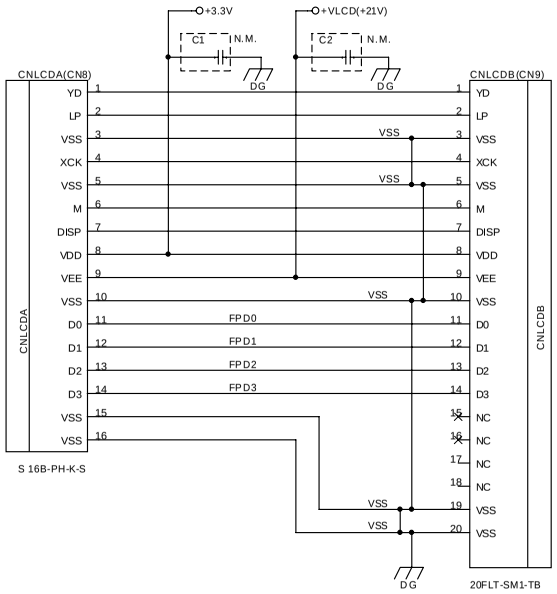
Operation panel PWB parts layout

Note: Since the parts of this PWB cannot be supplied, change it as a unit.

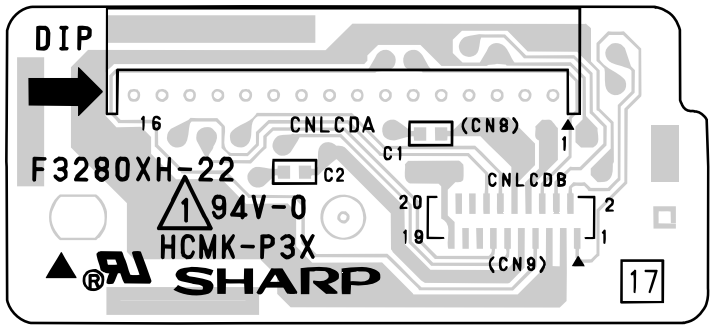
No.	DESCRIPTION	PARTS CODE
Ⓐ	Panel PWB unit	DCEKP425CXHP2
Ⓑ	LED PWB unit	DCEKP425CXHL3



[6] LCD Relay PWB circuit



LCD Relay PWB parts layout



Note: Since the parts of this PWB cannot be supplied, change it as a unit.

CHAPTER 7. OPERATION FLOWCHART

Refer to the service manual of FO-4400U.

CHAPTER 8. OTHERS

[1] Service Tools

1.CONNECTION

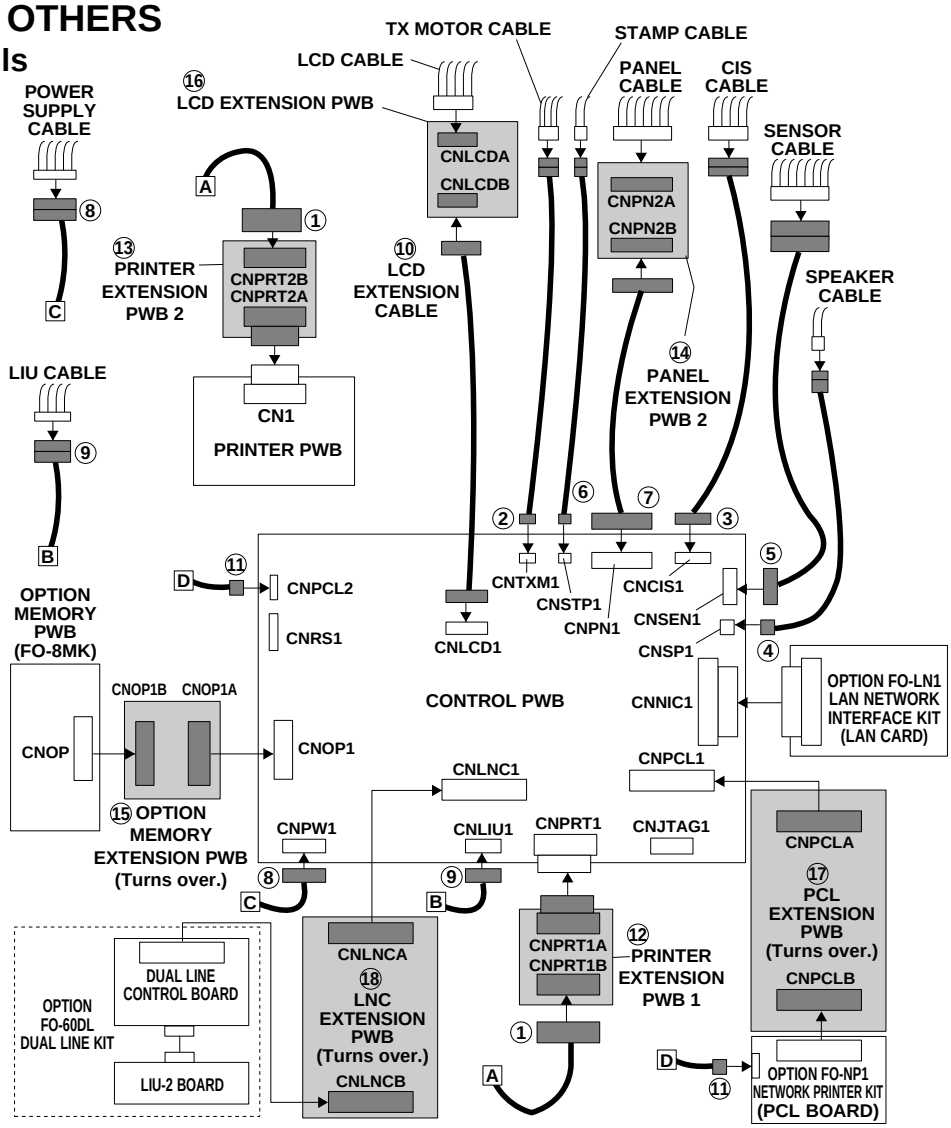


Fig. 1

2. Extension list

NO.	PARTS CODE	DESCRIPTION	Q'TY	PRICE RANK
1	QCNW-4559SCZZ	PRINTER EXTENSION PWB CABLE	1	FX
2	QCNWN313BSCZZ	TX MOTOR EXTENSION CABLE	1	AM
3	QCNWN314BSCZZ	CIS EXTENSION CABLE	1	AT
4	QCNWN315BSCZZ	SPEAKER EXTENSION CABLE	1	AH
5	QCNWN316BSCZZ	SENSOR EXTENSION CABLE	1	AR
6	QCNWN317BSCZZ	STAMP EXTENSION CABLE	1	AH
7	QCNWN290BXHZZ	PANEL EXTENSION CABLE	1	BA
8	QCNWN318SCHZZ	POWER SUPPLY EXTENSION CABLE	1	AU
9	QCNWN319BSCZZ	LIU EXTENSION CABLE	1	AS
10	QCNWN311BSCZZ	LCD EXTENSION CABLE	1	AV
11	QCNWN309BSCZZ	PCL EXTENSION CABLE	1	AN
12	DUNT-459CSC01	PRINTER EXTENSION PWB 1	1	CH
13	DUNT-459CSC02	PRINTER EXTENSION PWB 2	1	CH
14	DUNT-459CSC05	PANEL EXTENSION PWB 2	1	CH
15	DUNT-459CSC03	OPTION MEMORY EXTENSION PWB	1	CH
16	DUNT-459CSC06	LCD EXTENSION PWB	1	CH
17	DUNT-459CSC08	OPTION NETWOARK PRINTER KIT EXTENSION PWB	1	CH
18	DUNT-459CSC07	OPTION DUAL LINE KIT EXTENSION PWB	1	CH

[2] Rewriting version up the FLASH ROM

Refer to the service manual of FO-4400U.

SHARP PARTS GUIDE

MODEL FO-DC600

MODEL	SELECTION CODE	DESTINATION
FO-DC600	U	U.S.A./Canada

No. 7, 8, 9 and 10 of this parts guide are omitted because they are partly common to the FO-DC500U. Please refer to previous service manual (00ZFODC500SME) for these No.

CONTENTS

1 Exterior, etc. (1)

2 Exterior, etc. (2)

3 Exterior, etc. (3)

4 Operation panel unit

5 Document guide upper unit

6 Scanner frame unit

7 Frames
(Refer to the service manual FO-DC500U)

8 Paper transport section
(Refer to the service manual FO-DC500U)

9 Fusing unit
(Refer to the service manual FO-DC500U)

10 Drive/Transfer section
(Refer to the service manual FO-DC500U)

11 2nd paper cassette (1)

12 2nd paper cassette (2)

13 Packing material & Accessories

14 Control PWB unit

15 LIU PWB unit

16 Printer PWB unit

17 Power supply PWB unit

18 Operation panel PWB unit

19 LED PWB unit

20 LCD Relay PWB unit

21 High voltage PWB unit

22 Toner empty PWB unit

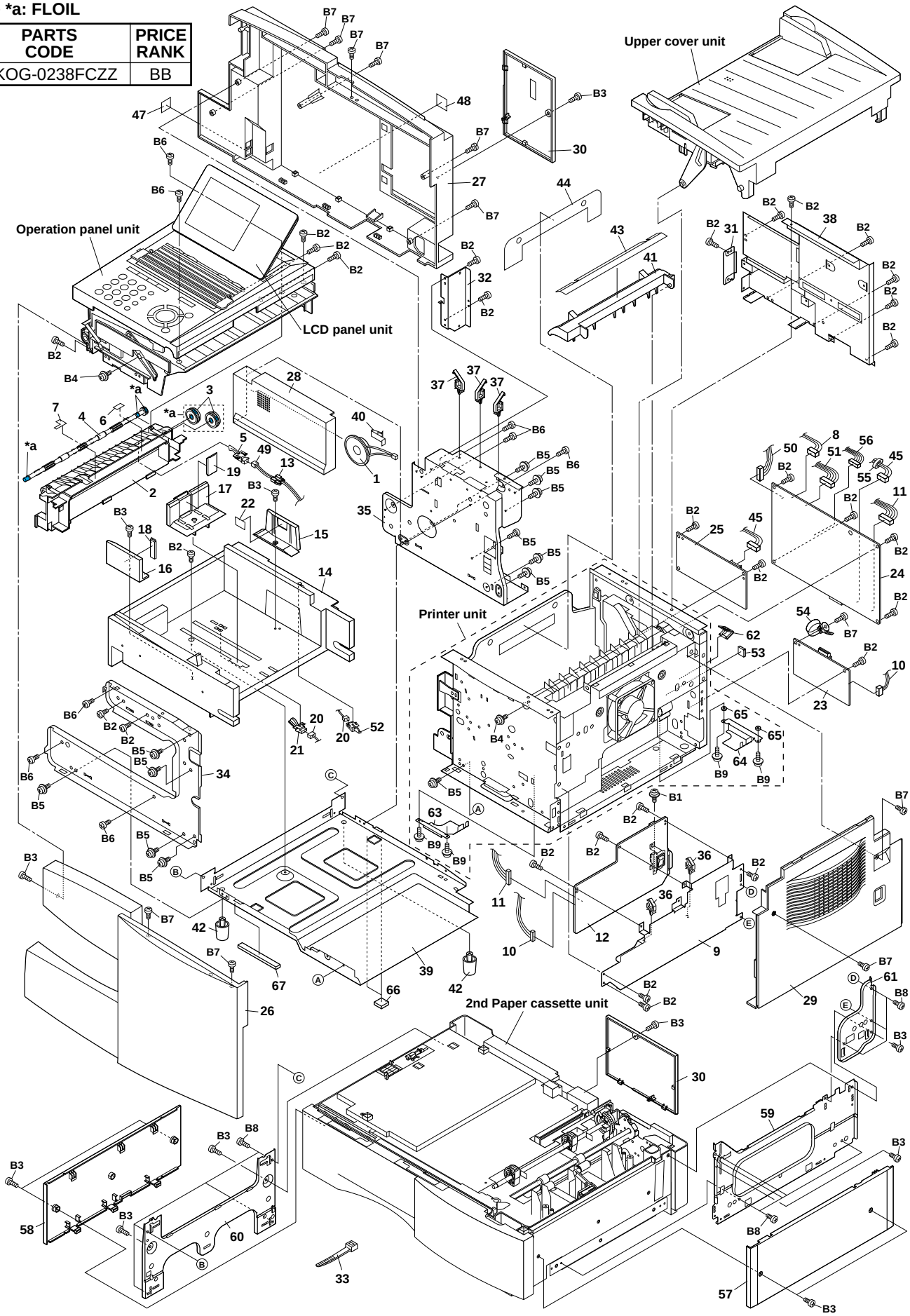
■ Index

Because parts marked with "⚠" is indispensable for the machine safety maintenance and operation, it must be replaced with the parts specified to the product specification.

[1] Exterior etc. (1)

***a: FLOIL**

PARTS CODE	PRICE RANK
UKOG-0238FCZZ	BB

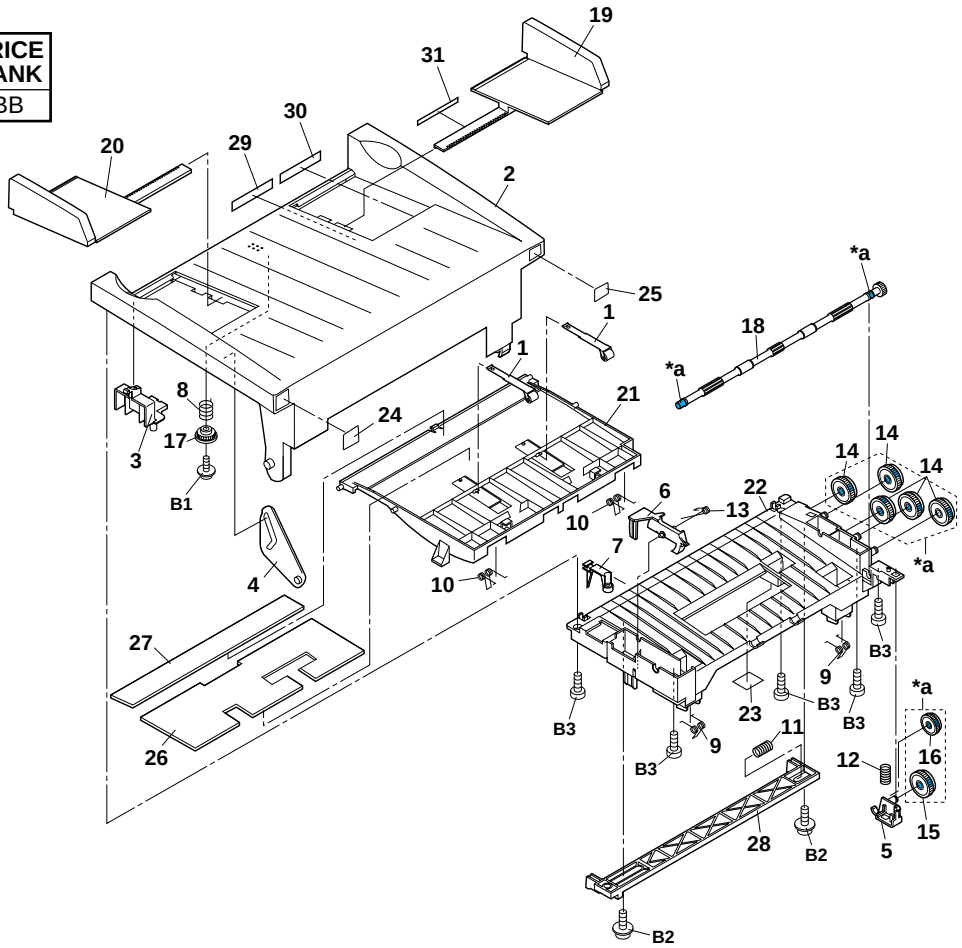


NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[1] Exterior etc. (1)					
1	CCNW-4955XH02	AL		C	Speaker ass'y
2	GCABE2411XHSA	AX		D	Left upper cabinet
3	NGERH2466XHZZ	AE		C	Idler gear(32Z)
4	NROLP2420XHZZ	AM		C	Left cabinet roller
5	QSW-M2324XHZZ	AN		C	Paper out sensor
6	TLABP394EXHZZ	AE		D	Supply guide label 1
7	TLABP395EXHZZ	AE		D	Supply guide label 2
8	QCNW-4953XHZZ	AK		C	CIS cable
9	LPLTM3267XHZZ	AT		C	Power supply PWB plate
10	QCNWN262BXHZZ	AS		C	Mechanism connect power supply cable
11	QCNWN263BXHZZ	AP		C	Power supply cable
⚠ 12	RDENT2181XHZZ	BX		E	Power supply PWB unit
13	QCNCW2662SC0B	AE		C	Joint connector
14	LPLTP3227XHSA	BE		C	Paper feed tray
15	PGIDM2636XHSA	AH		C	Tray width guide,rear
16	PGIDM2637XHSA	AH		C	Tray width guide,front
17	PGIDM2638XHSA	AH		C	Tray back guide
18	PSPO-2001XHZZ	AD		C	Tray width sponge
19	PSPO-2013XHZZ	AE		C	Tray back guide sponge
20	QCNWN268BXHZZ	AK		C	Paper size sensor cable
21	QSW-M2296XHZZ	AD		B	Paper size sensor
22	TLABH215EXHZZ	AD		D	Paper limit label 1
23	DCEKC424CXH01	BW		E	Printer PWB unit
24	DCEKC180SXHZZ	CU	N	E	Control PWB unit(Within ROM)
25	DCEKL422CXH01	BM		E	LIU PWB unit
26	GCABA2404XHSC	BB	N	D	Front cabinet
27	GCABB2405XHSA	BE		D	Rear cabinet
28	GCABC2409XHSA	AS		D	Inner front cabinet
29	GCABD2410XHSA	AX		D	Right cabinet
30	GCOVA2408XHSC	AL		C	ROM cover
31	LANGP2848XHZZ	AE		C	LIU-2 angle
32	LANGT2849XHZZ	AH		C	NIC angle
33	LBNDJ2006XHZZ	AA		C	Band(100mm)
34	LFRM-2233XHZZ	AV		C	Front frame,left
35	LFRM-2234XHZZ	AX		C	Rear frame,left
36	LHLDW2158SCZZ	AC		C	Wire holder
37	LHLDW2183SCZZ	AD		C	Clamp
38	LPLTM3235XHZZ	AV		C	PWB plate
39	LPLTM3236XHZZ	AZ		C	Bottom frame,left
40	MSPRP3055XHFJ	AD		C	Speaker holder plate spring
41	PGIDM2635XHZZ	AQ		C	Paper press guide
42	PLEGP2071XHZZ	AE		C	Foot
43	PSHEZ3740XHZZ	AL		C	Paper press guide protect sheet
44	PSHEZ3743XHZZ	AN		C	P/H protect sheet
45	QCNWN274BXHZZ	AN		C	LIU cable
47	PSHEZ3410XHZZ	AB		C	Jack sheet
48	TLABS247FXHZZ	AE	N	D	FDA label
49	QCNWN269BXHZZ	AK		C	PS4 sensor cable
50	QCNW-277AXHZZ	AY		C	Sensor cable
51	QCNWN290BXHZZ	BA	N	C	Panel cable
52	QSW-M2296XHZZ	AD		B	Received document tray sensor
53	PCUSS2188XHZZ	AE		C	PWB cushion
54	LBNDJ2013XHZZ	AM		C	Band
⚠ 55	RCORF2124XHZZ	AE		B	Core
56	QCNWN292BXHZZ	AX	N	C	LCD cable
57	GCABD2416XHSA	AS		D	2nd paper cassette cabinet,right
58	GCABD2417XHSA	AS		D	2nd paper cassette cabinet,left
59	LANGF2850XHZZ	AU		C	Joint angle,right 1
60	LANGF2851XHZZ	AQ		C	Joint angle,left
61	LANGF2857XHZZ	AM		C	Joint angle,right 2
62	LHLDW2182SCZZ	AC		C	Wire holder
63	0KW4127357102		N	C	Paper guide plate,front
64	0KW4127357202		N	C	Paper guide plate,rear
65	0KW4127357302		N	C	Spacer
66	PSPAZ2269XHZZ	AG	N	C	Cabinet spacer 1
67	PSPAZ2270XHZZ	AK	N	C	Cabinet spacer 2
B1	LX-BZ2282XHZZ	AB		C	Screw(4x6)
B2	XHBSD30P06000	AA		C	Screw(3x6)
B3	XEBSE30P10000	AA		C	Screw(3x10)
B4	LX-BZ2205XHZZ	AC		C	Screw(3x8)
B5	LX-BZ2241XHZZ	AC		C	Screw(3x6)
B6	XEBSD30P10000	AA		C	Screw(3x10)
B7	XHBSE30P10000	AA		C	Screw(3x10)
B8	XHBSE30P06000	AA		C	Screw(3x6)
B9	0KW9739031213	AB	N	C	Screw(3x12)

[2] Exterior etc. (2)

*a: FLOIL

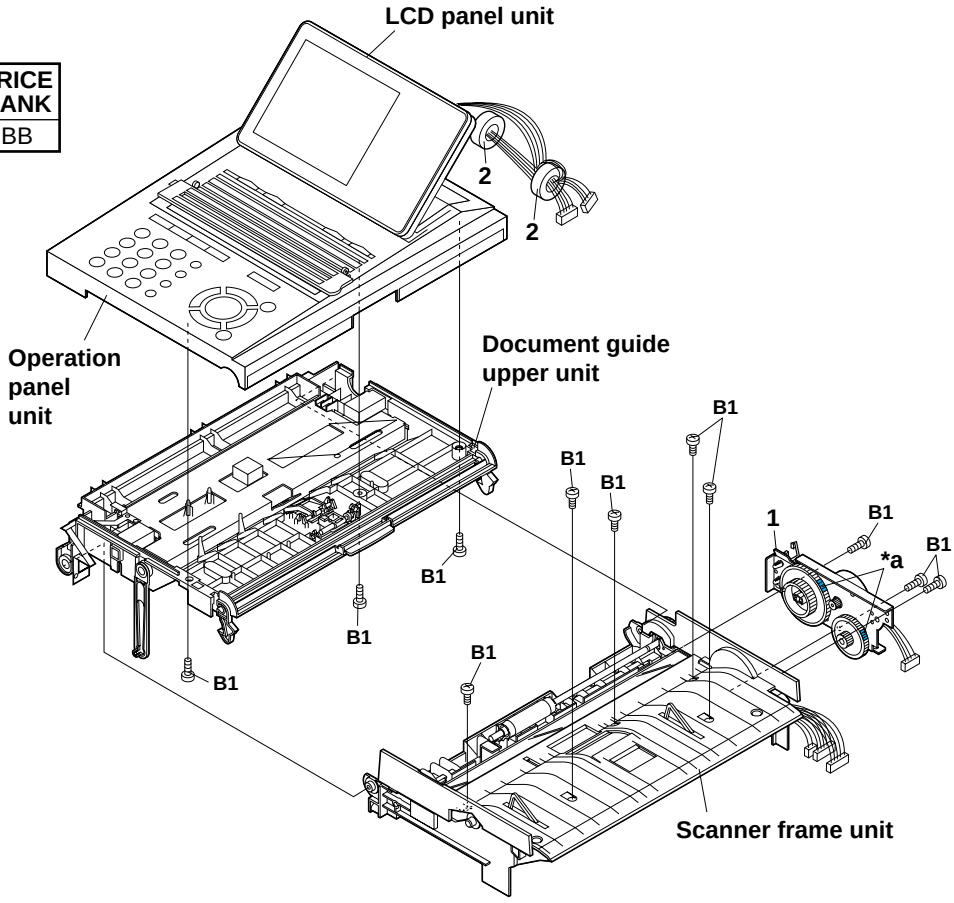
PARTS CODE	PRICE RANK
UKOG-0238FCZZ	BB



[3] Exterior etc. (3)

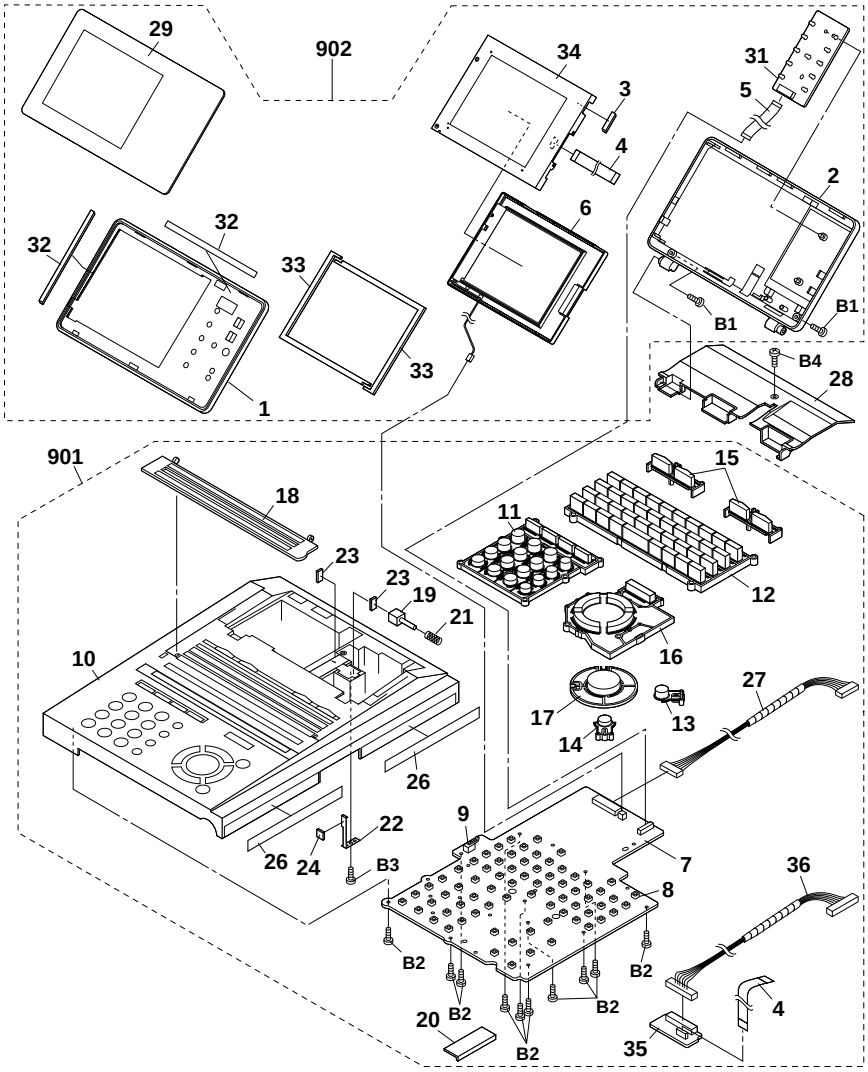
*a: FLOIL

PARTS CODE	PRICE RANK
UKOG-0238FCZZ	BB

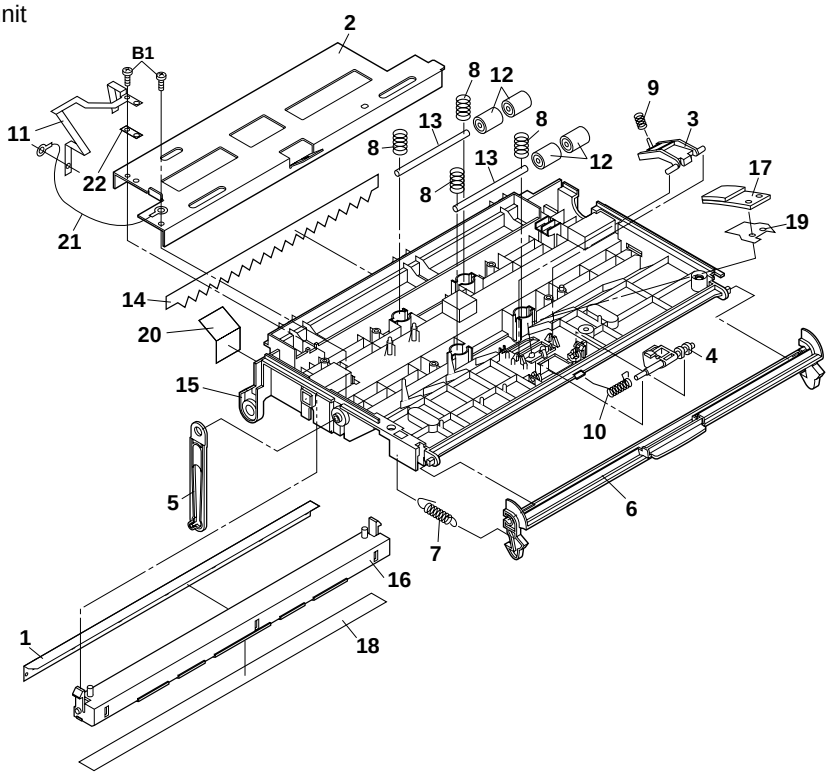


NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[2] Exterior etc. (2)					
1	CROLP2320XH01	AZ		C	Pinch roller ass'y
2	GCOVA2460XHSA	BB		C	Upper cover
3	JBTN-2376XHSB	AF		C	Upper cover lock button
4	LPLTM3228XHZZ	AE		C	Upper cover stopper
5	LPLTM3229XHZZ	AH		C	Upper cover gear plate
6	MLEVP2374XHZZ	AE		C	Drum cartridge detect lever
7	MLEVP2376XHZZ	AE		C	Shutter lever
8	MSPRC3149XHZZ	AB		C	Hopper spring
9	MSPRC3348XHZZ	AE		C	Drum cartridge press spring
10	MSPRC3350XHZZ	AE		C	Guide press spring
11	MSPRC3374XHZZ	AC		C	Upper cover lock spring
12	MSPRC3375XHZZ	AD		C	Upper cover gear plate spring
13	MSPRD3091XHZZ	AF		C	Drum cartridge detect lever spring
14	NGERH2466XHZZ	AE		C	Idler gear(32Z)
15	NGERH2602XHZZ	AH		C	Idler gear 1(50Z)
16	NGERH2603XHZZ	AE		C	Idler gear 2(17Z)
17	NGERP2318XHZZ	AD		C	Pinion gear
18	NROLP2421XHZZ	AM		C	Upper cover roller
19	PGIDM2544XHSB	AL		C	Hopper guide,right
20	PGIDM2545XHSB	AL		C	Hopper guide,left
21	PGIDM2639XHZZ	AX		C	Paper exit guide,upper
22	PGIDM2640XHZZ	AY		C	Paper exit guide,under
23	PSHEZ3455XHZZ	AF		C	Reflection sheet
24	PSHEZ3741XHSA	AE		C	Upper cover sheet,left
25	PSHEZ3742XHSA	AE		C	Upper cover sheet,right
26	PSPO-2014XHZZ	AL		C	Upper cover sponge
27	PSPO-2015XHZZ	AH		C	Upper cover sponge
28	PTME-2073XHZZ	AH		C	Upper cover lock nail
29	PSHEZ3777XHZZ	AE		C	Upper cover sheet A
30	PSHEZ3778XHZZ	AD		C	Upper cover sheet B
31	PSHEZ3779XHZZ	AD		C	Hopper right guide,sheet
B1	LX-BZ2138XHZZ	AB		C	Screw(3x8)
B2	LX-BZ2205XHZZ	AC		C	Screw(3x8)
B3	XEBSD30P10000	AA		C	Screw(3x10)
[3] Exterior etc. (3)					
1	CMOTZ2146XH01	BH		E	Drive unit
⚠ 2	RCORF2125XHZZ	AE		B	Core(TRA31)
B1	XEBSD30P10000	AA		C	Screw(3x10)

[4] Operation panel unit



[5] Document guide upper unit

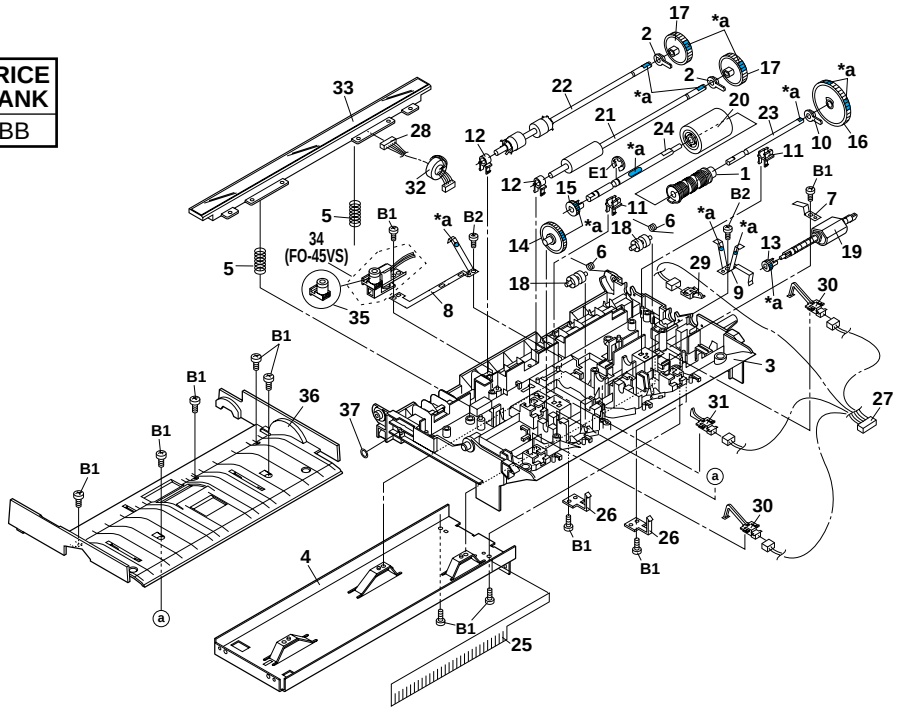


NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[4] Operation panel unit					
1	GCABA2406XHSA	AP		D	LCD case,upper
2	GCABB2408XHSA	AQ		D	LCD case,under
3	PCUSS2185XHZZ	AQ		C	LCD cushion
4	QCNWN293BXHZZ	AM		C	LCD FCC cable
5	QCNWN295BXHZZ	AH		C	LED FCC cable
6	RUNTZ2095SCZZ	BT		E	LCD unit
7	DCEKP425CXHP2	BC		E	Operation panel PWB unit
8	QSW-K0005AWZZ	AC		C	Tact switch [SW]
⚠ 9	QSW-Z2326SCZZ	AL		C	Paper plate switch [SW-A]
10	GCASP2163XHSC	AZ	N	D	Operation panel case
11	JBTN-2368XHSA	AN		C	10 key
12	JBTN-2369XHSA	AP		C	Direct key
13	JBTN-2370XHSA	AE		C	Copy key
14	JBTN-2371XHSA	AE		C	Stop key
15	JBTN-2372XHSA	AG		C	Mode key
16	JBTN-2374XHSA	AH		C	Menu key
17	JBTN-2375XHSA	AH		C	Start key
18	LPLTP3223XHSA	AH		C	Page plate
19	LPLTP3225XHZZ	AE		C	Friction plate
20	LPLTP3226XHZZ	AE		C	Switch cover plate
21	MSPRC3347XHZZ	AE		C	Friction spring 1
22	MSPRP3355XHZZ	AH		C	Friction spring 2
23	PGUMM2201XHZZ	AF		C	Friction gum 1
24	PGUMM2202XHZZ	AE		C	Friction gum 2
26	PSHEZ3752XHSA	AF		C	Scan width sheet
27	QCNWN290BXHZZ	BA		C	Panel cable
28	LPLTP3224XHSA	AH		C	LCD support plate
29	HPNLH2423XHZC	BD	N	D	Decoration panel
31	DCEKP425CXHL3	BB	N	E	LED PWB unit
32	PSHEP3768XHZZ	AF		C	LCD blind sheet
33	PCUSS2190XHZZ	AG		C	LCD cushion
34	RUNTZ2096SCZZ	AX		E	Backlight unit
35	DCEKD442CXH01	AS		E	LCD Relay PWB unit
36	QCNWN292BXHZZ	AX		C	LCD cable
B1	XEBSE26P08000	AA		C	Screw(2.6x8)
B2	XEBSD20P08000	AA		C	Screw(2x8)
B3	XEBSD30P10000	AA		C	Screw(3x10)
B4	XEBSE30P10000	AA		C	Screw(3x10)
	(Unit)				
901	CCASP2163XH53	BR	N	E	Operation panel unit
902	CCABA2406XH03	CE	N	E	LCD panel unit
[5] Document guide upper unit					
1	LANGF2819XHZZ	AF		C	Back bracket
2	LPLTM3011XHZZ	AK		C	Document guide upper plate
3	LPLTP2819XHZZ	AD		C	Separator plate
4	LPLTP2821XHZZ	AD		C	Transfer plate
5	LSTPP2052XHZZ	AD		C	Document guide stopper
6	MLEVP2304XHSB	AL		C	Release lever
7	MSPRC2843XHZZ	AC		C	Release lever spring
8	MSPRC3126XHZZ	AG		C	Pinch roller spring 2
9	MSPRC3180XHZZ	AD		C	Separate spring
10	MSPRD3179XHZZ	AD		C	Input pressure spring
11	MSPRP3083XHZZ	AF		C	Brush earth spring
12	NROLP2334XHZA	AC		C	Pinch roller
13	NSFTZ2306XHZZ	AD		C	Pinch roller shaft
14	PBRS-2059XHZZ	AK		C	Paper brush
15	PGIDM2539XHZD	AT	N	C	Document guide upper
16	PGIDM2540XHZZ	AF		C	Back guide
17	PGUMM2162XHZZ	AF		C	Separate rubber
18	PSHEZ3418XHZZ	AC		C	Back sheet
19	PSHEZ3419XHZZ	AB		C	Separate sheet
20	PSHEZ3738XHZZ	AE		C	Blind sheet
21	QCNWN270BXHZZ	AF		C	Earth cable
22	PSHEZ3753XHZZ	AE		C	Sheet
B1	XEBSD30P10000	AA		C	Screw(3x10)

[6] Scanner frame unit

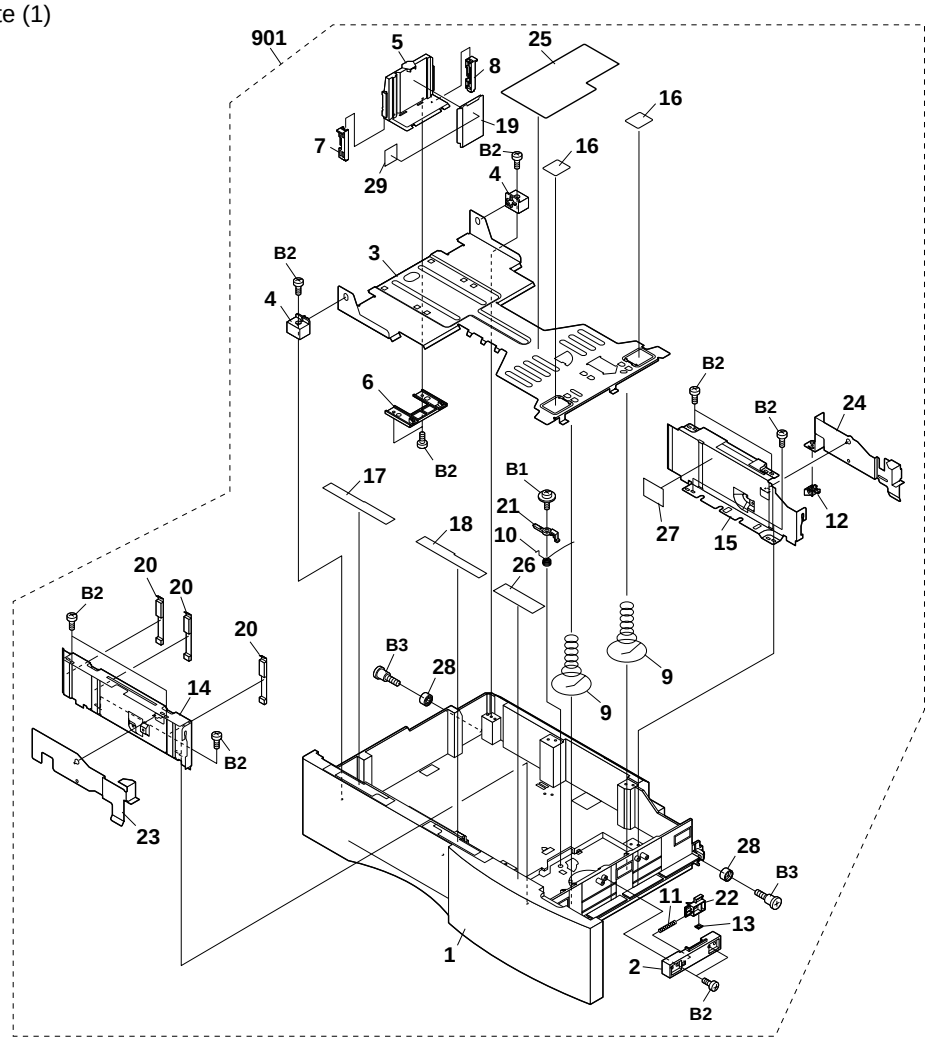
***a: FLOIL**

PARTS CODE	PRICE RANK
UKOG-0238FCZZ	BB



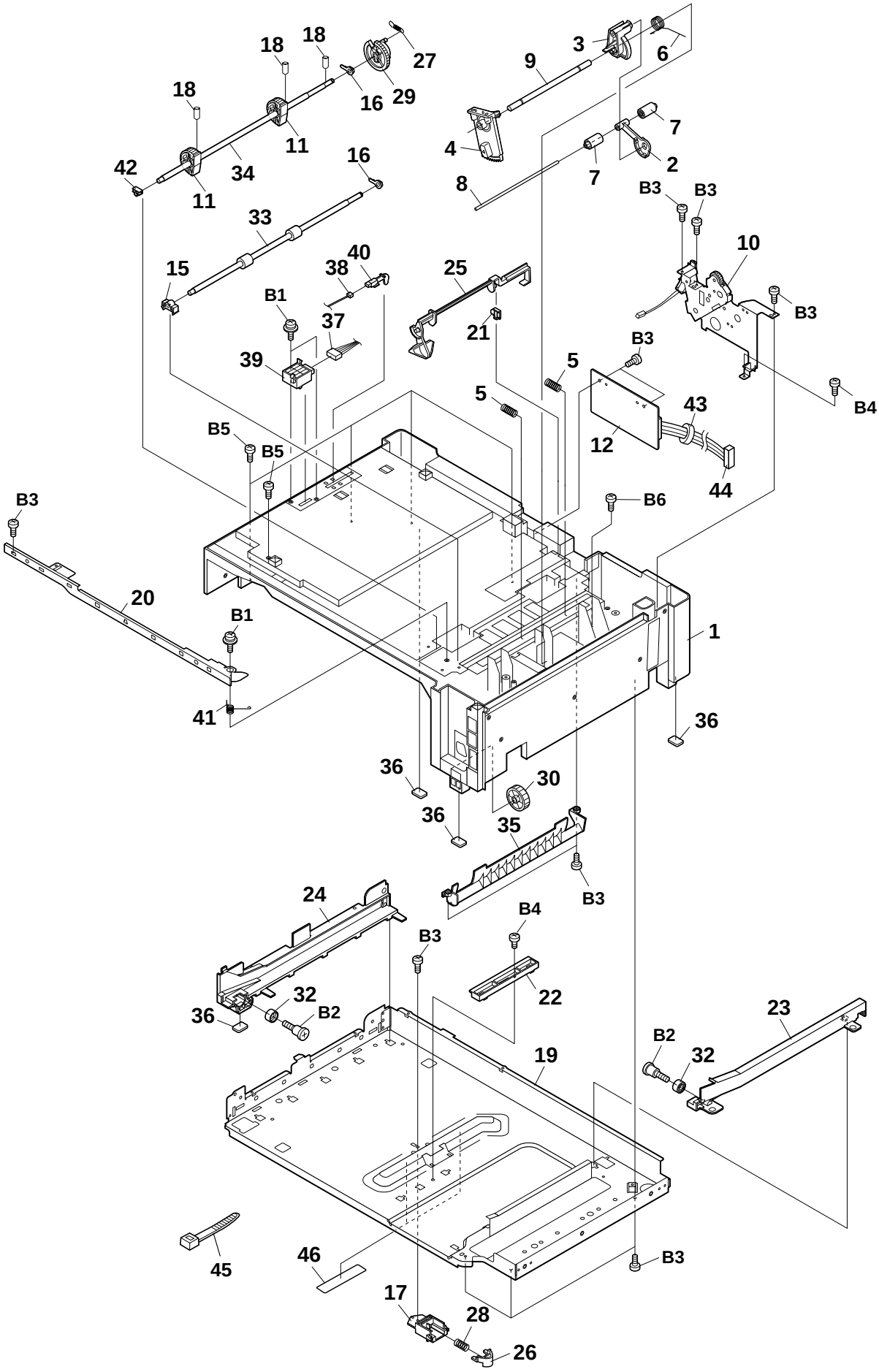
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[6] Scanner frame unit					
1	CBSHP2079XH02	AZ		C	Scanner feed clutch
2	LBSHP2113XHZZ	AH		C	DR bearing
3	LFRM-2201XHZZ	AL		C	Scanner frame
4	LPLTM3012XHZZ	AL		C	Scanner support plate
5	MSPRC3138XHZZ	AE		C	CIS spring
6	MSPRD3086XHZZ	AH		C	Pinch roller spring
7	MSPRP2841XHZZ	AC		C	Stopper spring
8	MSPRP3088XHZZ	AF		C	SD2 earth spring
9	MSPRP3087XHZZ	AF		C	FD1 earth spring
10	NBRGP2128XHZA	AE		C	Bearing
11	NBRGP2138XHZZ	AD		C	Scanner bearing 1
12	NBRGP2141XHZZ	AH		C	Transfer bearing
13	NGERH2319XHZZ	AD		C	ADF transfer gear
14	NGERH2320XHZZ	AD		C	Transfer idler gear
15	NGERH2322XHZZ	AC		C	ADF feed gear
16	NGERH2462XHZZ	AC		C	Feed gear(73Z)
17	NGERH2463XHZZ	AC		C	Feed gear(49Z)
18	NROLP2332XHZZ	AD		C	PO pinch roller
19	NROLR2417XHZZ	AH		C	Transfer roller
20	NROLR2338XHZZ	AK		C	Scanner feed roller
21	NROLR2418XHZZ	AL		C	Scanner drive roller 1
22	NROLR2419XHZZ	AK		C	Scanner drive roller 2
23	NSFTZ2307XHZZ	AK		C	Scanner feed shaft 1
24	NSFTZ2308XHZZ	AL		C	Scanner feed shaft 2
25	PBRS-2048XHZZ	AD		C	Paper earth brush
26	PTME-2067XHZZ	AK		C	Anti curl piece
27	QCNW-277AXHZZ	AY		C	Sensor cable
28	QCNW-4953XHZZ	AK		C	CIS cable
29	QSW-M2296XHZZ	AD		B	Transfer sensor
30	QSW-M2298XHZZ	AE		C	Front sensor/B4 Front sensor
31	QSW-Z2237SCZZ	AE		B	Document sensor
⚠ 32	RCORF2124XHZZ	AE		B	Core
33	RUNTZ2104XHB4	BW		E	CIS unit
34	PSTM-2015SCZZ	AX		E	Verification stamp(FO-45VS)
35	UINK-2009SC01	BA		C	Stamp only(20 pieces)
36	PGIDM2541XHSD	AP		C	Document guide under
37	PSHEZ3764XHZZ	AB		C	Sheet
B1	XEBSD30P10000	AA		C	Screw(3x10)
B2	XHBSD30P06000	AA		C	Screw(3x6)
E1	XRESJ50-06000	AA		C	E type ring(5mm)
[7]Frame(Refer to the service manual FO-DC500U.)					
[8]Paper transport section(Refer to the service manual FO-DC500U.)					
[9]Fusing unit(Refer to the service manual FO-DC500U.)					
[10]Drive/Transfer unit(Refer to the service manual FO-DC500U.)					

[11] 2nd paper cassette (1)



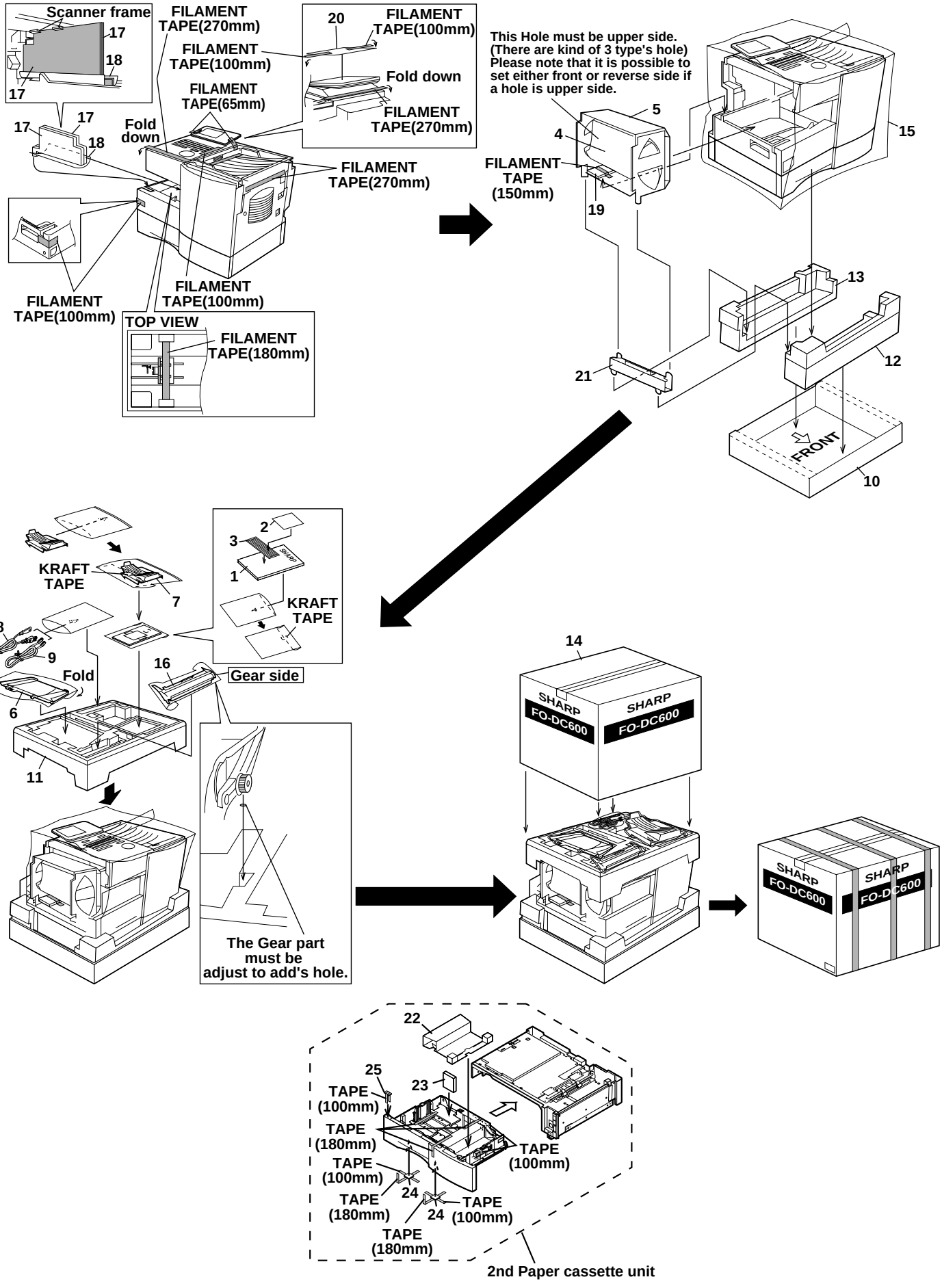
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[11] 2nd paper cassette (1)					
1	GCASP2164XHSA	BG		C	Cassette case
2	LHLDW2238XHZZ	AE		C	Lock down holder
3	LPLTM3237XHZZ	AZ		C	Cassette push up plate
4	LPLTP3230XHZZ	AE		C	Cassette push up plate holder
5	LPLTP3231XHZZ	AH		C	Cassette back guide
6	LPLTP3232XHZZ	AE		C	Cassette back guide plate
7	LPLTP3233XHZZ	AE		C	Cassette back rock guide,front
8	LPLTP3234XHZZ	AE		C	Cassette back rock guide,rear
9	MSPRC3376XHZZ	AL		C	Cassette push up plate spring
10	MSPRD3125XHZZ	AD		C	Lock down spring
11	MSPRD3377XHZZ	AE		C	Lock down spring 2
12	PCAPH2032XHZZ	AC		C	Separate nail rear cap
13	PCUSG2186XHZA	AG	N	C	Cushion gum
14	PGIDM2641XHZZ	AY		C	Cassette width guide,front
15	PGIDM2642XHZZ	AY		C	Cassette width guide,rear
16	PSHEZ3754XHZZ	AH		D	Separate pad
17	PSHEZ3745XHZL	AH		C	Cassette blind sheet,left
18	PSHEZ3745XHZR	AH		C	Cassette blind sheet,right
19	PSPO-2016XHZZ	AH		C	Cassette back guide sponge
20	PSPO-2008XHZZ	AE		C	Cassette width sponge,front
21	PTME-2064XHZA	AF		C	Lock down piece 1
22	PTME-2074XHZZ	AE		C	Lock down piece 2
23	PTME-2075XHZZ	AU		C	Separate nail,front
24	PTME-2076XHZZ	AU		C	Separate nail,rear
25	TLABH424EXHZZ	AS		D	Cassette paper setting label
26	TLABH425EXHZA	AE		D	Cassette paper setting label 2
27	TLABH426EXHZZ	AE		D	Paper limit label 2
28	NROLP2493XHZZ	AE		C	Slide roller
29	TLABH292FXHZZ	AL	N	D	Paper limit label 3
B1	LX-BZ2205XHZZ	AC		C	Screw(3x8)
B2	XEBSD30P10000	AA		C	Screw(3x10)
B3	LX-BZ2291XHZZ	AE		C	Cassette special screw
	(Unit)				
901	CCASP2164XH01	BS		E	Cassette unit

[12] 2nd paper cassette (2)



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[12] 2nd paper cassette (2)					
1	GCABG2412XHSA	BM		D	Cassette cabinet
2	LPLTP3023XHZZ	AF		C	Lever joint 1
3	LPLTP3044XHZZ	AF		C	Lever joint 2
4	MLEVP2309XHZZ	AE		C	Release lever
5	MSPRC3095XHZZ	AD		C	Pinch roller spring
6	MSPRD3093XHZZ	AG		C	Release lever spring
7	NROLP2334XHZA	AC		C	Pinch roller
8	NSFTZ2309XHZZ	AC		C	Pinch roller shaft
9	NSFTZ2312XHZZ	AC		C	Release shaft
10	CMOTZ2180XH02	BD	N	E	Drive system unit
11	CROLR2595XH01	AQ		C	PU roller unit
12	DCEKZ426CXH01	BK		E	2nd option cassette PWB unit
15	LBSHP2109XHZZ	AF		C	Drive bearing
16	LBSHP2113XHZA	AE		C	Drive roller bearing
17	LHLDZ2239XHZZ	AE		C	Lock nail holder
18	LPINS2032XHZZ	AF		C	Roller pin
19	LPLTM3238XHZZ	BD		C	Bottom plate
20	LPLTM3239XHZZ	AR		C	Front support bracket
21	LPLTP3242XHZZ	AE		C	Sensor guide plate
22	LPLTP3252XHZZ	AE		C	Lock release plate
23	LRALP2025XHZZ	AL		C	Cassette nail,right
24	LRALP2026XHZZ	AL		C	Cassette nail,left
25	MLEVP2308XHZZ	AD		C	Paper sensor lever
26	MLOK-2008XHZZ	AC		C	Cassette lock piece
27	MSPRC3181XHZZ	AD		C	Clutch spring
28	MSPRC3378XHZZ	AE		C	Cassette lock spring
29	NGERH2469XHZZ	AC		C	Paper feed clutch gear
30	NGERH2472XHZZ	AA		C	Idler gear(30Z)
32	NROLP2493XHZZ	AE		C	Slide roller
33	NROLR2496XHZZ	AU		C	Drive roller
34	NSFTZ2365XHZZ	AS		C	Cassette up roller shaft
35	PGIDM2643XHZZ	AL		C	Cassette paper guide
36	GLEGG2082XHZZ	AE		C	Foot
37	QCNW-4964XHZZ	AF		C	Paper size cable
38	QCNWN272BXHZZ	AH		C	Cassette size sensor cable
39	QSW-M2323XHZZ	AQ		C	Paper size sensor
40	QSW-M2219SCZZ	AD		C	Cassette size sensor
41	MSPRD3404XHZZ	AH		C	Earth spring
42	LBSHP2147XHZZ	AE		C	PU roller bearing
⚠ 43	RCORF2124XHZZ	AE		B	Core
44	QCNWN264BXHZZ	AU		C	2nd cassette cable(15pin)
45	LBNDJ2006XHZZ	AA		C	Band(100mm)
46	TLABZ462FXHZZ	AE	N	C	Skid sheet
B1	LX-BZ2205XHZZ	AC		C	Screw(3x8)
B2	LX-BZ2291XHZZ	AE		C	Cassette special screw
B3	XEBSD30P10000	AA		C	Screw(3x10)
B4	XHBSD30P06000	AA		C	Screw(3x6)
B5	XHBSD30P10000	AA		C	Screw(3x10)
B6	XHBSE30P12000	AA		C	Screw(3x12)

[13] Packing material & Accessories



	NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[13] Packing material & Accessories						
	1	TINSE4302XHTB	AS	N	D	Operation manual
	2	TLABP391EXHZZ	AE		D	Paper size labels
	3	TLABZ392EXHZZ	AD		D	Rapid key labels
	4	DUNT-429CSCZZ	BZ	N	S	Toner cartridge(Initial starter cartridge)
	5	SPAKA344EXHZZ	AL		D	Toner cartridge protection
	6	CPLTP2803XHC4	AZ		C	ADF exit tray
	7	CPLTP3009XHC5	AY		C	Received document tray(with label)
⚠	8	QACCD2062XHZZ	AQ		B	Power cord
⚠	9	QCNW-290ASCZZ	AE		C	Telephone line cord
	10	SPAKA422DXHZZ	AS		D	Packing case,bottom
	11	SPAKA423DXHZZ	AY		D	Packing add.,top
	12	SPAKA431DXHZZ	AR	N	D	Packing add.,bottom,front
	13	SPAKA432DXHZZ	AR	N	D	Packing add.,bottom,rear
	14	SPAKC430DXHTZ	AY	N	D	Packing case,top
	15	SPAKP499DXHZZ	AL		D	Vinyl cover
	16	DUNT-454BSCZZ	CA		S	Drum cartridge(Initial starter cartridge)
	17	SPAKA293EXHZZ	AF		C	Protection sheet
	18	SPAKA294EXHZZ	AE		C	Protection sheet
	19	SPAKA343EXHZZ	AG		D	Toner cartridge protection sheet
	20	SPAKA345EXHZZ	AD		D	LCD protection sheet
	21	SPAKA433DXHZZ	AF	N	D	Spacer
	22	SPAKA227EXHZZ	AL		D	Cassette protection A
	23	SPAKA228EXHZZ	AG		D	Cassette protection B
	24	PSPAZ2271XHZZ	AR	N	C	Cabinet spacer 3
	25	PSPAZ2272XHZZ	AG	N	C	Cabinet spacer 4

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[14] Control PWB unit						
1	UBATL2071XHZZ	AL		B	Battery(CR2450)	[BAT1]
2	RR-TZ3012SC00	AB		C	Block resistor(0Ωx4)	[BR2]
3	RR-TZ3012SC00	AB		C	Block resistor(0Ωx4)	[BR3]
4	RR-TZ3012SC00	AB		C	Block resistor(0Ωx4)	[BR4]
5	RR-TZ3012SC00	AB		C	Block resistor(0Ωx4)	[BR5]
6	RR-TZ3023SCZZ	AC		C	Block resistor(100Ωx4)	[BR10]
7	RR-TZ3023SCZZ	AC		C	Block resistor(100Ωx4)	[BR11]
8	RR-TZ3023SCZZ	AC		C	Block resistor(100Ωx4)	[BR12]
9	RR-TZ3023SCZZ	AC		C	Block resistor(100Ωx4)	[BR13]
10	RR-TZ3016SCZZ	AA		C	Block resistor(33Ωx4)	[BR14]
11	RR-TZ3016SCZZ	AA		C	Block resistor(33Ωx4)	[BR15]
12	RR-TZ3016SCZZ	AA		C	Block resistor(33Ωx4)	[BR18]
13	RR-TZ3016SCZZ	AA		C	Block resistor(33Ωx4)	[BR19]
14	RR-TZ3016SCZZ	AA		C	Block resistor(33Ωx4)	[BR22]
15	RR-TZ3016SCZZ	AA		C	Block resistor(33Ωx4)	[BR23]
16	RR-TZ3016SCZZ	AA		C	Block resistor(33Ωx4)	[BR24]
17	RR-TZ3016SCZZ	AA		C	Block resistor(33Ωx4)	[BR25]
18	RR-TZ3023SCZZ	AC		C	Block resistor(100Ωx4)	[BR26]
19	RR-TZ3023SCZZ	AC		C	Block resistor(100Ωx4)	[BR27]
20	RR-TZ3023SCZZ	AC		C	Block resistor(100Ωx4)	[BR28]
21	RR-TZ3023SCZZ	AC		C	Block resistor(100Ωx4)	[BR29]
22	RR-TZ3016SCZZ	AA		C	Block resistor(33Ωx4)	[BR30]
23	RR-TZ3016SCZZ	AA		C	Block resistor(33Ωx4)	[BR31]
24	RR-TZ3016SCZZ	AA		C	Block resistor(33Ωx4)	[BR32]
25	RR-TZ3016SCZZ	AA		C	Block resistor(33Ωx4)	[BR33]
26	RR-TZ3016SCZZ	AA		C	Block resistor(33Ωx4)	[BR34]
27	RR-TZ3016SCZZ	AA		C	Block resistor(33Ωx4)	[BR35]
28	RR-TZ3016SCZZ	AA		C	Block resistor(33Ωx4)	[BR36]
29	RR-TZ3016SCZZ	AA		C	Block resistor(33Ωx4)	[BR37]
30	RR-TZ3016SCZZ	AA		C	Block resistor(33Ωx4)	[BR38]
31	RR-TZ3016SCZZ	AA		C	Block resistor(33Ωx4)	[BR39]
32	RR-TZ3044SCZZ	AD		C	Block resistor(10KΩx4)	[BR40]
33	RR-TZ3044SCZZ	AD		C	Block resistor(10KΩx4)	[BR41]
34	RR-TZ3044SCZZ	AD		C	Block resistor(10KΩx4)	[BR42]
35	VCKYCZ1CF104Z	AB		C	Capacitor(16WV 0.1μF)	[C7]
36	VCKYCZ1CF104Z	AB		C	Capacitor(16WV 0.1μF)	[C8]
37	VCKYCZ1EB102K	AA		C	Capacitor(25WV 1000PF)	[C9]
38	VCKYCZ0JF105Z	AC		C	Capacitor(6.3WV 1.0μF)	[C10]
39	VCKYCZ0JF105Z	AC		C	Capacitor(6.3WV 1.0μF)	[C11]
40	VCKYCZ0JF105Z	AC		C	Capacitor(6.3WV 1.0μF)	[C12]
41	VCKYCZ0JF105Z	AC		C	Capacitor(6.3WV 1.0μF)	[C13]
42	VCKYCZ0JF105Z	AC		C	Capacitor(6.3WV 1.0μF)	[C14]
43	VCKYCZ0JF105Z	AC		C	Capacitor(6.3WV 1.0μF)	[C15]
44	VCKYCZ0JF105Z	AC		C	Capacitor(6.3WV 1.0μF)	[C16]
45	VCKYCZ0JF105Z	AC		C	Capacitor(6.3WV 1.0μF)	[C17]
46	VCKYCZ0JF105Z	AC		C	Capacitor(6.3WV 1.0μF)	[C18]
47	VCKYCZ0JF105Z	AC		C	Capacitor(6.3WV 1.0μF)	[C19]
48	VCKYCZ0JF105Z	AC		C	Capacitor(6.3WV 1.0μF)	[C20]
49	VCKYCZ0JF105Z	AC		C	Capacitor(6.3WV 1.0μF)	[C21]
50	VCKYCZ0JF105Z	AC		C	Capacitor(6.3WV 1.0μF)	[C22]
51	VCKYCZ0JF105Z	AC		C	Capacitor(6.3WV 1.0μF)	[C23]
52	VCKYCZ0JF105Z	AC		C	Capacitor(6.3WV 1.0μF)	[C24]
53	VCKYCZ0JF105Z	AC		C	Capacitor(6.3WV 1.0μF)	[C25]
54	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C100]
55	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C103]
56	VCCCCY1HH180J	AA		C	Capacitor(50WV 18PF)	[C104]
57	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C105]
58	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C106]
59	VCKYCY1HB222K	AA		C	Capacitor(50WV 2200PF)	[C111]
60	VCKYCY1HB222K	AA		C	Capacitor(50WV 2200PF)	[C112]
61	VCKYCY1HB222K	AA		C	Capacitor(50WV 2200PF)	[C113]
62	VCKYCY1HB222K	AA		C	Capacitor(50WV 2200PF)	[C114]
63	VCKYCY1HB222K	AA		C	Capacitor(50WV 2200PF)	[C115]
64	VCKYCY1HB222K	AA		C	Capacitor(50WV 2200PF)	[C116]
65	VCKYCY1HB222K	AA		C	Capacitor(50WV 2200PF)	[C117]
66	VCKYCY1HB222K	AA		C	Capacitor(50WV 2200PF)	[C118]
67	VCKYCY1HB222K	AA		C	Capacitor(50WV 2200PF)	[C119]
68	VCKYCY1HF104Z	AA		C	Capacitor(50WV 0.1μF)	[C122]
69	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C124]
70	VCCCCY1HH471J	AA		C	Capacitor(50WV 470PF)	[C125]
71	VCCCCY1HH331J	AB		C	Capacitor(50WV 330PF)	[C126]
72	VCCCCY1HH331J	AB		C	Capacitor(50WV 330PF)	[C128]
73	VCCCCY1HH471J	AA		C	Capacitor(50WV 470PF)	[C129]
74	VCCCCY1HH221J	AA		C	Capacitor(50WV 220PF)	[C130]
75	VCKYCY1HB103K	AA		C	Capacitor(50WV 0.01μF)	[C131]
76	VCKYTV1HB102K	AA		C	Capacitor(50WV 1000PF)	[C132]
77	VCKYCY1HB332K	AA		C	Capacitor(50WV 3300PF)	[C133]
78	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1μF)	[C138]
79	VCKYCY1AF105Z	AC		C	Capacitor(10WV 1μF)	[C139]
80	VCKYCY1AF105Z	AC		C	Capacitor(10WV 1μF)	[C140]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[14] Control PWB unit						
81	VCKYTV1CF225Z	AD		C	Capacitor(16WV 2.2µF)	[C141]
82	VCKYCY1AF105Z	AC		C	Capacitor(10WV 1µF)	[C142]
83	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C143]
84	VCCCCY1HH100D	AA		C	Capacitor(50WV 10PF)	[C144]
85	VCCCCY1HH8R0D	AA		C	Capacitor(50WV 8PF)	[C145]
86	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C146]
87	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C148]
88	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C150]
89	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C151]
90	VCKYTV1HB222K	AA		C	Capacitor(50WV 2200PF)	[C161]
91	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C162]
92	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C163]
93	VCKYCY1HB222K	AA		C	Capacitor(50WV 2200PF)	[C164]
94	VCKYTQ1EB224K	AB		C	Capacitor(25WV 0.22µF)	[C165]
95	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C166]
96	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C167]
97	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C168]
98	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C169]
99	VCCCCY1HH101J	AA		C	Capacitor(50WV 100PF)	[C171]
100	VCCCCY1HH330J	AA		C	Capacitor(50WV 33PF)	[C174]
101	VCCCCY1HH330J	AA		C	Capacitor(50WV 33PF)	[C175]
102	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C176]
103	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C177]
104	VCKYCY1AF105Z	AC		C	Capacitor(10WV 1µF)	[C178]
105	VCKYCY1AF105Z	AC		C	Capacitor(10WV 1µF)	[C179]
106	VCKYTV1CF225Z	AD		C	Capacitor(16WV 2.2µF)	[C180]
107	VCKYCY1AF105Z	AC		C	Capacitor(10WV 1µF)	[C181]
108	VCKYCY1AF105Z	AC		C	Capacitor(10WV 1µF)	[C182]
109	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C183]
110	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C184]
111	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C187]
112	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C188]
113	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C189]
114	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C190]
115	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C191]
116	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C192]
117	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C193]
118	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C194]
119	VCCCCY1HH470J	AA		C	Capacitor(50WV 47PF)	[C195]
120	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C198]
121	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C199]
122	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C200]
123	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C201]
124	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C202]
125	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C203]
126	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C204]
127	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C205]
128	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C206]
129	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C207]
130	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C209]
131	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C210]
132	VCCCCY1HH120J	AA		C	Capacitor(50WV 12PF)	[C213]
133	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C214]
134	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C215]
135	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C220]
136	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C226]
137	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C231]
138	VCCCCY1HH150J	AB		C	Capacitor(50WV 15PF)	[C232]
139	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C233]
140	VCCCCY1HH471J	AA		C	Capacitor(50WV 470PF)	[C236]
141	VCKYCY1AF105Z	AC		C	Capacitor(10WV 1µF)	[C238]
142	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C239]
143	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C240]
144	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C244]
145	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C245]
146	VCKYCY1HB222K	AA		C	Capacitor(50WV 2200PF)	[C246]
147	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C247]
148	VCKYCY1AF105Z	AC		C	Capacitor(10WV 1µF)	[C248]
149	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C256]
150	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C258]
151	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C259]
152	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C262]
153	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C263]
154	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C264]
155	VCKYCY1HB222K	AA		C	Capacitor(50WV 2200PF)	[C266]
156	VCKYCY1HB222K	AA		C	Capacitor(50WV 2200PF)	[C267]
157	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C268]
158	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C269]
159	VCKYCY1HB222K	AA		C	Capacitor(50WV 2200PF)	[C270]
160	VCKYCY1HB222K	AA		C	Capacitor(50WV 2200PF)	[C271]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[14] Control PWB unit						
161	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C272]
162	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C273]
163	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C278]
164	VCKYCY1AF105Z	AC		C	Capacitor(10WV 1µF)	[C279]
165	VCKYCY1AF105Z	AC		C	Capacitor(10WV 1µF)	[C280]
166	VCKYCY1AF105Z	AC		C	Capacitor(10WV 1µF)	[C281]
167	VCCCCY1HH101J	AA		C	Capacitor(50WV 100PF)	[C282]
168	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C286]
169	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C289]
170	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C290]
171	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C291]
172	VCCCCY1HH120J	AA		C	Capacitor(50WV 12PF)	[C292]
173	VCCCCY1HH180J	AA		C	Capacitor(50WV 18PF)	[C293]
174	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C294]
175	VCKYCY1AF105Z	AC		C	Capacitor(10WV 1µF)	[C295]
176	VCKYCY1AF105Z	AC		C	Capacitor(10WV 1µF)	[C296]
177	VCKYCY1AF105Z	AC		C	Capacitor(10WV 1µF)	[C297]
178	VCKYCY1AF105Z	AC		C	Capacitor(10WV 1µF)	[C298]
179	VCKYCY1CB104K	AB		C	Capacitor(16WV 0.1µF)	[C300]
180	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C301]
181	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C305]
182	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C310]
183	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C311]
184	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C314]
185	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C318]
186	VCCCCY1HH560J	AA		C	Capacitor(50WV 56PF)	[C319]
187	VCCCCY1HH7R0D	AA		C	Capacitor(50WV 7PF)	[C320]
188	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C321]
189	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C322]
190	VCKYCY1HB103K	AA		C	Capacitor(50WV 0.01µF)	[C323]
191	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C325]
192	VCKYCY1CB104K	AB		C	Capacitor(16WV 0.1µF)	[C327]
193	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C328]
194	VCKYCY1CB104K	AB		C	Capacitor(16WV 0.1µF)	[C329]
195	VCKYCY1CB104K	AB		C	Capacitor(16WV 0.1µF)	[C330]
196	VCKYCY1CB104K	AB		C	Capacitor(16WV 0.1µF)	[C331]
197	VCKYCY1AF105Z	AC		C	Capacitor(10WV 1µF)	[C332]
198	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C333]
199	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C342]
200	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C343]
201	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C346]
202	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C358]
203	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C359]
204	VCKYCY1HB222K	AA		C	Capacitor(50WV 2200PF)	[C360]
205	VCKYCY1HB222K	AA		C	Capacitor(50WV 2200PF)	[C361]
206	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C362]
207	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C363]
208	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C364]
209	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C365]
210	VCKYCY1CB104K	AB		C	Capacitor(16WV 0.1µF)	[C366]
211	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[C368]
212	VCKYCY1CB104K	AB		C	Capacitor(16WV 0.1µF)	[C369]
213	VCCCCY1HH101J	AA		C	Capacitor(50WV 100PF)	[C372]
214	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C375]
215	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C376]
216	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C378]
217	VCCCCY1HH331J	AB		C	Capacitor(50WV 330PF)	[C384]
218	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C385]
219	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C386]
220	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C387]
221	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C388]
222	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C389]
223	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C390]
224	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C391]
225	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C392]
226	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C393]
227	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C394]
228	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C395]
229	VCKYCY1CB104K	AB		C	Capacitor(16WV 0.1µF)	[C396]
230	VCKYCY1HF104Z	AA		C	Capacitor(50WV 0.1µF)	[C397]
231	VCCCCY1HH331J	AB		C	Capacitor(50WV 330PF)	[C398]
232	VCCCCY1HH471J	AA		C	Capacitor(50WV 470PF)	[C399]
233	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[C400]
234	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C403]
235	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C404]
236	VCKYCY1HF104Z	AA		C	Capacitor(50WV 0.1µF)	[C407]
237	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C601]
238	VCKYCY1HB103K	AA		C	Capacitor(50WV 0.01µF)	[C602]
239	VCEAEA1CW107M	AC		C	Capacitor(16WV 100µF)	[CE1]
240	RC-EZ3097XHZZ	AP		C	Capacitor(10WV 220µF)	[CE2]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[14] Control PWB unit					
241	VCEAEA1CW106M	AC		C	Capacitor(16WV 10μF) [CE4]
242	VCEAEA1CW107M	AC		C	Capacitor(16WV 100μF) [CE5]
243	RC-EZ3088XHZZ	AK		C	Capacitor(50WV 100μF) [CE6]
244	VCEAEA1HW226M	AB		C	Capacitor(50WV 22μF) [CE7]
245	VCEAEA1HW226M	AB		C	Capacitor(50WV 22μF) [CE8]
246	VCEAEA1CW476M	AA		C	Capacitor(16WV 47μF) [CE10]
247	VCEAEA1CW226M	AA		C	Capacitor(16WV 22μF) [CE11]
248	VCEAEA1CW106M	AC		C	Capacitor(16WV 10μF) [CE12]
249	VCEAEA1CW226M	AA		C	Capacitor(16WV 22μF) [CE13]
250	VCEAEA1CW226M	AA		C	Capacitor(16WV 22μF) [CE14]
251	VCEAEA1CW106M	AC		C	Capacitor(16WV 10μF) [CE15]
252	VCEAEA1CW336M	AB		C	Capacitor(16WV 33μF) [CE16]
253	VCEAEA1EW475M	AA		C	Capacitor(25WV 4.7μF) [CE17]
254	VCEAEA1HW105M	AC		C	Capacitor(50WV 1μF) [CE18]
255	VCEAEA1CW476M	AA		C	Capacitor(16WV 47μF) [CE19]
256	VCEAEA1CW476M	AA		C	Capacitor(16WV 47μF) [CE20]
257	VCEAEA1CW106M	AC		C	Capacitor(16WV 10μF) [CE22]
258	VCEAEA1CW476M	AA		C	Capacitor(16WV 47μF) [CE23]
259	VCEAEA1CW106M	AC		C	Capacitor(16WV 10μF) [CE24]
260	VCEAEA1CW107M	AC		C	Capacitor(16WV 100μF) [CE26]
261	VCEAEA1CW336M	AB		C	Capacitor(16WV 33μF) [CE27]
262	VCEAEA1CW336M	AB		C	Capacitor(16WV 33μF) [CE28]
263	VCEAEA1VW476M	AH		C	Capacitor(35WV 47μF) [CE29]
264	QCNCM7014SC1J	AC		C	Connector(10pin) [CNCIS1]
265	QCNCM2482SC1H	AE		C	Connector(18pin) [CNJTAG1]
266	QCNCM2482SC1F	AF		C	Connector(16pin) [CNLCD1]
267	QCNCM7014SC0I	AB		C	Connector(9pin) [CNLIU1]
268	QCNCM2611SC6J	AX	N	C	Connector(60pin) [CNLNC1]
269	QCNCW2527SC6J	AV		C	Connector(60pin) [CNNIC1]
270	QCNCM2589SC3J	AP		C	Connector(30pin) [CNOP1]
271	QCNCW2612SC6J	BA		C	Connector(60pin) [CNPCL1]
272	QCNCM7014SC0C	AA		C	Connector(3pin) [CNPCL2]
273	QCNCM2482SC2D	AB		C	Connector(24pin) [CNPN1]
274	QCNCM2525SC3J	AH		C	Connector(30pin) [CNPRT1]
275	QCNCM7014SC1B	AD		C	Connector(12pin) [CNPW1]
276	QCNCM7014SC0E	AB		C	Connector(5pin) [CNRS1]
277	QCNCM7014SC0H	AB		C	Connector(8pin) [CNSEN1]
278	QCNCM2401SC0B	AA		C	Connector(2pin) [CNSP1]
279	QCNCM7014SC0B	AD		C	Connector(2pin) [CNSTP1]
280	QCNCM7014SC0D	AB		C	Connector(4pin) [CNTXM1]
281	VHDSR104///-1	AF		B	Diode(SR104) [D1]
282	VHDSR104///-1	AF		B	Diode(SR104) [D2]
283	VHDSR104///-1	AF		B	Diode(SR104) [D3]
284	VHDSR104///-1	AF		B	Diode(SR104) [D4]
285	VHD1SS322//-1	AC		B	Diode(1SS322) [D5]
286	VHDMC2850++-1	AE		B	Diode(MC2850) [D6]
287	VHDDAN202U/-1	AB		B	Diode(DAN202U) [D8]
288	VHDGPP20J//-1	AE		B	Diode(GPP20J G23) [D9]
289	VHDDA204K//-1	AC		B	Diode(DA204K) [D100]
290	VHD1SS355//-1	AB		B	Diode(1SS355) [D101]
291	VHDDA204K//-1	AC		B	Diode(DA204K) [D102]
292	VHDHRW0202B-1	AD		B	Diode(HRW0202B) [D103]
293	VHD1SS355//-1	AB		B	Diode(1SS355) [D104]
294	VHD1SS355//-1	AB		B	Diode(1SS355) [D105]
⚠ 295	VHVICPS05//-1	AA		B	IC protector(ICP-S0.5) [F1]
⚠ 296	VHVICPS10//-1	AG		B	IC protector(ICP-S1.0) [F2]
297	VRS-TP2BD000J	AA		C	Resistor(1/8W 0Ω ±5%) [F3]
298	VRS-TP2BD000J	AA		C	Resistor(1/8W 0Ω ±5%) [F4]
⚠ 299	VHVICPS10//-1	AG		B	IC protector(ICP-S1.0) [F5]
⚠ 300	VHVICPS10//-1	AG		B	IC protector(ICP-S1.0) [F100]
⚠ 301	VHVICPS18//-1	AE		B	IC protector(ICP-S1.8) [F101]
⚠ 302	VHVICPS07//-1	AA		A	IC protector(ICP-S0.7) [F102]
303	RH-IX2304XHZZ	AX		B	IC(AD8051A) [IC1]
304	RH-IX2239SCZZ	AG		B	IC(SN74HCT244PWR) [IC2]
305	VHILB1845//-1	AY		B	IC(LB1845) [IC3]
306	RH-IX2323XHZZ	AP		B	IC(S-8358J50MC) [IC4]
307	RH-IX2296XHZZ	BG		B	IC(W986416DH/MT48LC4M16A2TG) [IC5]
308	RH-IX2294SCZZ	BZ		B	IC(LC272D0BT-WA6) [IC6]
309	RH-IX2300XHZZ	AL		B	IC(SN74HCT244NSR) [IC7]
310	VHINJM2904M-2	AG		B	IC(NJM2904M) [IC8]
311	RH-IX2239SCZZ	AG		B	IC(SN74HCT244PWR) [IC9]
312	RH-IX2172SCZZ	BC		B	IC(SED1374F0A) [IC10]
313	RH-IX2303XHZZ	AG		B	IC(SN74LVU04APWR) [IC11]
314	VHIF032/TA70B		N	B	IC,FLASH ROM(32MB)(Ver.:TA70B)(DROM-180SXH01) [IC12]
315	RH-IX2299XHZZ	BA		B	IC(MAX3221CPWR) [IC13]
316	RH-IX2302XHZZ	AH		B	IC(SN74LV14APWR) [IC14]
317	RH-IX2302XHZZ	AH		B	IC(SN74LV14APWR) [IC16]
318	VHIPST596CMT1	AF		B	IC(PST596) [IC17]
319	RH-IX2235XHZZ	BD		B	IC(BS62LV256SC-70) [IC19]
320	RH-IX2301XHZZ	AL		B	IC(SN74LV126APWR) [IC20]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[14] Control PWB unit						
321	RH-IX2295SCZZ	BK		B	IC(LC24199B-WJ0-E)	[IC21]
322	VHISM8578BV-1	AK		B	IC(SM8578BV)	[IC22]
323	VHIBA10393F-1	AC		B	IC(BA10393F)	[IC23]
324	RH-IX2293XHZZ	BU		B	IC(HD6417706F133)	[IC24]
325	RH-IX2297XHZZ	BK		B	IC(MT48LC8M16A2TG-75/W981216BH-75)	[IC25]
326	VHITC58128A-1	BH	N	B	IC(TC58128AFT)	[IC26]
327	VHI74LV245APW	AG		B	(SN74LV245A)	[IC29]
328	RH-IX2292XHZZ	BV		B	IC(FM336Plus)	[IC30]
329	RH-IX2320XHZZ	AL		B	IC(SN74LV4053APW)	[IC31]
330	VHINJM2904M-2	AG		B	IC(NJM2904M)	[IC32]
331	RH-IX2300XHZZ	AL		B	IC(SN74HCT244NSR)	[IC33]
332	VHINJM2113M-1	AG		B	IC(NJM2113M)	[IC36]
333	RH-IX2317XHZZ	AQ		B	IC(PQ070XZ5MZP)	[IC37]
334	RH-IX2340XHZZ	AR		B	IC(PQ3RD23)	[IC38]
335	RCILZ1081YCZZ	AF		C	Coil(220µH)	[L1]
336	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[L100]
337	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[L101]
338	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[L102]
339	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[L103]
340	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[L104]
341	RCRSC2196XHZZ	AH		B	Crystal(33.1776MHz)	[OSC1]
342	VS2SD1164//-1	AE		B	Transistor(2SD1164)	[Q1]
343	VSRT1N141M/-1	AB		B	Transistor(RT1N141M)	[Q2]
344	VS2SC2411KR-1	AC		B	Transistor(2SC2411KR)	[Q3]
345	VS2SJ243///-1	AD		B	FET(2SJ243)	[Q4]
346	VS2SD1664Q/-1	AD		B	Transistor(2SD1664Q)	[Q100]
347	VS2SC2411KR-1	AC		B	Transistor(2SC2411KR)	[Q102]
348	VS2SC2712GR-1	AB		B	Transistor(2SC2712)	[Q103]
349	VS2SD1624T/-1	AD		B	Transistor(2SD1624)	[Q104]
350	VSFMMT717//-1	AC		B	Transistor(FMMT717)	[Q105]
351	VSKRC106S//-1	AD		B	Transistor(KRC106S)	[Q106]
352	VSKRC106S//-1	AD		B	Transistor(KRC106S)	[Q107]
353	VSRT1N141M/-1	AB		B	Transistor(RT1N141M)	[Q108]
354	VSKRA102S//-1	AD		B	Transistor(KRA102S)	[Q111]
355	VSKRC106S//-1	AD		B	Transistor(KRC106S)	[Q112]
356	VSKRC106S//-1	AD		B	Transistor(KRC106S)	[Q114]
357	VSKRC106S//-1	AD		B	Transistor(KRC106S)	[Q115]
358	VSKRC106S//-1	AD		B	Transistor(KRC106S)	[Q116]
359	VSKRC106S//-1	AD		B	Transistor(KRC106S)	[Q117]
360	VSKRC106S//-1	AD		B	Transistor(KRC106S)	[Q118]
361	VRS-HT3AAR47J	AC		C	Resistor(1W 0.47Ω ±5%)	[R1]
362	VRS-HT3AAR47J	AC		C	Resistor(1W 0.47Ω ±5%)	[R2]
363	VRS-CZ1JB333J	AA		C	Resistor(1/16W 33KΩ ±5%)	[R5]
364	VRS-CZ1JB333J	AA		C	Resistor(1/16W 33KΩ ±5%)	[R6]
365	VRS-CZ1JB100J	AA		C	Resistor(1/16W 10Ω ±5%)	[R7]
366	VRS-CZ1JB100J	AA		C	Resistor(1/16W 10Ω ±5%)	[R8]
367	VRS-CZ1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R9]
368	VRS-CZ1JB105J	AD		C	Resistor(1/16W 1MΩ ±5%)	[R10]
369	VRS-CZ1JB221J	AD		C	Resistor(1/16W 220Ω ±5%)	[R11]
370	VRS-CZ1JB221J	AD		C	Resistor(1/16W 220Ω ±5%)	[R12]
371	VRS-HT3AA101J	AA		C	Resistor(1W 100Ω ±5%)	[R13]
372	VRS-CZ1JB101J	AA		C	Resistor(1/16W 100Ω ±5%)	[R14]
373	VRS-CZ1JB101J	AA		C	Resistor(1/16W 100Ω ±5%)	[R15]
374	VRS-CZ1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R16]
375	VRS-CZ1JB104J	AA		C	Resistor(1/16W 100KΩ ±5%)	[R17]
376	VRS-CZ1JB102J	AA		C	Resistor(1/16W 1KΩ ±5%)	[R18]
377	VRS-CZ1JB100J	AA		C	Resistor(1/16W 10Ω ±5%)	[R20]
378	VRS-CZ1JB100J	AA		C	Resistor(1/16W 10Ω ±5%)	[R21]
379	VRS-CZ1JB100J	AA		C	Resistor(1/16W 10Ω ±5%)	[R22]
380	VRS-CZ1JB221J	AD		C	Resistor(1/16W 220Ω ±5%)	[R23]
381	VRS-CZ1JB221J	AD		C	Resistor(1/16W 220Ω ±5%)	[R24]
382	VRS-CZ1JB221J	AD		C	Resistor(1/16W 220Ω ±5%)	[R25]
383	VRS-CZ1JB221J	AD		C	Resistor(1/16W 220Ω ±5%)	[R26]
384	VRS-CZ1JB101J	AA		C	Resistor(1/16W 100Ω ±5%)	[R27]
385	VRS-CZ1JB100J	AA		C	Resistor(1/16W 10Ω ±5%)	[R28]
386	VRS-CZ1JB100J	AA		C	Resistor(1/16W 10Ω ±5%)	[R29]
387	VRS-CZ1JB100J	AA		C	Resistor(1/16W 10Ω ±5%)	[R30]
388	VRS-CZ1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R33]
389	VRD-HT2EY100J	AA		C	Resistor(1/4W 10Ω ±5%)	[R34]
390	VRS-CZ1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R50]
391	VRS-CZ1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R51]
392	VRS-CZ1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R52]
393	VRS-CZ1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R53]
394	VRS-CZ1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R54]
395	VRS-CZ1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R55]
396	VRS-CZ1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R56]
397	VRS-CZ1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R57]
398	VRS-CZ1JB101J	AA		C	Resistor(1/16W 100Ω ±5%)	[R58]
399	VRS-CZ1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R59]
400	VRS-CZ1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R60]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[14] Control PWB unit					
401	VRS-CZ1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R61]
402	VRS-CZ1JB101J	AA		C	Resistor(1/16W 100Ω ±5%) [R62]
403	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R100]
404	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R101]
405	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R102]
406	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R103]
407	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R104]
408	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R105]
409	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R106]
410	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R107]
411	VRS-CY1JB471J	AA		C	Resistor(1/16W 470Ω ±5%) [R108]
412	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R109]
413	VRS-CY1JB302J	AA		C	Resistor(1/16W 3KΩ ±5%) [R110]
414	VRS-CY1JB152J	AA		C	Resistor(1/16W 1.5KΩ ±5%) [R111]
415	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R112]
416	VRS-CY1JB100J	AA		C	Resistor(1/16W 10Ω ±5%) [R115]
417	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R116]
418	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R118]
419	VRS-CY1JB271J	AA		C	Resistor(1/16W 270Ω ±5%) [R119]
420	VRS-CY1JB271J	AA		C	Resistor(1/16W 270Ω ±5%) [R120]
421	VRS-CY1JB271J	AA		C	Resistor(1/16W 270Ω ±5%) [R121]
422	VRS-CY1JB271J	AA		C	Resistor(1/16W 270Ω ±5%) [R122]
423	VRS-CY1JB271J	AA		C	Resistor(1/16W 270Ω ±5%) [R123]
424	VRS-CY1JB271J	AA		C	Resistor(1/16W 270Ω ±5%) [R124]
425	VRS-CY1JB271J	AA		C	Resistor(1/16W 270Ω ±5%) [R125]
426	VRS-CY1JB271J	AA		C	Resistor(1/16W 270Ω ±5%) [R126]
427	VRS-CY1JB271J	AA		C	Resistor(1/16W 270Ω ±5%) [R127]
428	VRS-CY1JB471J	AA		C	Resistor(1/16W 470Ω ±5%) [R128]
429	VRS-CY1JB102J	AA		C	Resistor(1/16W 1KΩ ±5%) [R129]
430	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%) [R130]
431	VRS-CY1JB105J	AA		C	Resistor(1/16W 1.0MΩ ±5%) [R131]
432	VRS-CY1JB563F	AC		C	Resistor(1/16W 56KΩ ±1%) [R132]
433	VRS-CY1JB102J	AA		C	Resistor(1/16W 1KΩ ±5%) [R133]
434	VRS-CY1JB102J	AA		C	Resistor(1/16W 1KΩ ±5%) [R134]
435	VRS-CY1JB563F	AC		C	Resistor(1/16W 56KΩ ±1%) [R135]
436	VRS-CY1JB303J	AA		C	Resistor(1/16W 30KΩ ±5%) [R136]
437	VRS-CY1JB433F	AC		C	Resistor(1/16W 43KΩ ±1%) [R137]
438	VRS-CY1JB303J	AA		C	Resistor(1/16W 30KΩ ±5%) [R139]
439	VRS-CY1JB204F	AA		C	Resistor(1/16W 200KΩ ±1%) [R140]
440	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R141]
441	VRS-CY1JB102J	AA		C	Resistor(1/16W 1KΩ ±5%) [R145]
442	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%) [R146]
443	VRS-TS2AD102J	AA		C	Resistor(1/10W 1KΩ ±5%) [R147]
444	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%) [R148]
445	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R149]
446	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%) [R150]
447	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%) [R151]
448	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%) [R152]
449	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%) [R153]
450	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R154]
451	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R155]
452	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R156]
453	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%) [R157]
454	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%) [R158]
455	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%) [R159]
456	VRS-CY1JB105J	AA		C	Resistor(1/16W 1.0MΩ ±5%) [R160]
457	VRS-CY1JB561J	AA		C	Resistor(1/16W 560Ω ±5%) [R161]
458	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R164]
459	VRS-CY1JB101J	AA		C	Resistor(1/16W 100Ω ±5%) [R165]
460	VRS-CY1JB471J	AA		C	Resistor(1/16W 470Ω ±5%) [R170]
461	VRS-CY1JB271J	AA		C	Resistor(1/16W 270Ω ±5%) [R175]
462	VRS-CY1JB223F	AC		C	Resistor(1/16W 22KΩ ±1%) [R176]
463	VRS-CY1JB123F	AA		C	Resistor(1/16W 12KΩ ±1%) [R177]
464	VRS-CY1JB333F	AA		C	Resistor(1/16W 33KΩ ±1%) [R179]
465	VRS-CY1JB113F	AD		C	Resistor(1/16W 11KΩ ±1%) [R180]
466	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R181]
467	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%) [R182]
468	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R184]
469	VRS-CY1JB333J	AA		C	Resistor(1/16W 33KΩ ±5%) [R185]
470	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%) [R186]
471	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R187]
472	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%) [R188]
473	VRS-TS2AD000J	AA		C	Resistor(1/10W 0Ω ±5%) [R190]
474	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%) [R191]
475	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%) [R192]
476	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%) [R193]
477	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%) [R194]
478	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%) [R195]
479	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%) [R196]
480	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%) [R197]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[14] Control PWB unit						
481	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R198]
482	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R199]
483	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R200]
484	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R201]
485	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R202]
486	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R203]
487	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R204]
488	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R205]
489	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R206]
490	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R207]
491	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R208]
492	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R209]
493	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R210]
494	VRS-CY1JB332J	AA		C	Resistor(1/16W 3.3KΩ ±5%)	[R211]
495	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R212]
496	VRS-CY1JB332J	AA		C	Resistor(1/16W 3.3KΩ ±5%)	[R213]
497	VRS-CY1JB332J	AA		C	Resistor(1/16W 3.3KΩ ±5%)	[R214]
498	VRS-CY1JB332J	AA		C	Resistor(1/16W 3.3KΩ ±5%)	[R215]
499	VRS-CY1JB332J	AA		C	Resistor(1/16W 3.3KΩ ±5%)	[R216]
500	VRS-CY1JB332J	AA		C	Resistor(1/16W 3.3KΩ ±5%)	[R217]
501	VRS-CY1JB332J	AA		C	Resistor(1/16W 3.3KΩ ±5%)	[R218]
502	VRS-CY1JB332J	AA		C	Resistor(1/16W 3.3KΩ ±5%)	[R219]
503	VRS-CY1JB332J	AA		C	Resistor(1/16W 3.3KΩ ±5%)	[R220]
504	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R221]
505	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R222]
506	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R223]
507	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R224]
508	VRS-CY1JB271J	AA		C	Resistor(1/16W 270Ω ±5%)	[R227]
509	VRS-CY1JB271J	AA		C	Resistor(1/16W 270Ω ±5%)	[R228]
510	VRS-CY1JB271J	AA		C	Resistor(1/16W 270Ω ±5%)	[R229]
511	VRS-CY1JB271J	AA		C	Resistor(1/16W 270Ω ±5%)	[R230]
512	VRS-CY1JB271J	AA		C	Resistor(1/16W 270Ω ±5%)	[R231]
513	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R232]
514	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R233]
515	VRS-CY1JB333J	AA		C	Resistor(1/16W 33KΩ ±5%)	[R234]
516	VRS-CY1JB333J	AA		C	Resistor(1/16W 33KΩ ±5%)	[R235]
517	VRS-CY1JB333J	AA		C	Resistor(1/16W 33KΩ ±5%)	[R236]
518	VRS-CY1JB333J	AA		C	Resistor(1/16W 33KΩ ±5%)	[R238]
519	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R239]
520	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R240]
521	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R243]
522	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R244]
523	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R245]
524	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R246]
525	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R247]
526	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R248]
527	VRS-CY1JB105J	AA		C	Resistor(1/16W 1.0MΩ ±5%)	[R249]
528	VRS-CY1JB221J	AA		C	Resistor(1/16W 220Ω ±5%)	[R250]
529	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R251]
530	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R252]
531	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R253]
532	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R254]
533	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R256]
534	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R260]
535	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R261]
536	VRS-CY1JB102J	AA		C	Resistor(1/16W 1KΩ ±5%)	[R262]
537	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R266]
538	VRS-CY1JB101J	AA		C	Resistor(1/16W 100Ω ±5%)	[R267]
539	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R268]
540	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R269]
541	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R270]
542	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R271]
543	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R272]
544	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R273]
545	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R274]
546	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R275]
547	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R276]
548	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R277]
549	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R278]
550	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R279]
551	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R280]
552	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R281]
553	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R282]
554	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R283]
555	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R284]
556	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R285]
557	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R286]
558	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R287]
559	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R288]
560	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R289]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[14] Control PWB unit						
561	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R290]
562	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R292]
563	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R293]
564	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R294]
565	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R295]
566	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R296]
567	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R297]
568	VRS-CY1JB101J	AA		C	Resistor(1/16W 100Ω ±5%)	[R298]
569	VRS-CY1JB203J	AA		C	Resistor(1/16W 20KΩ ±5%)	[R299]
570	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R300]
571	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R301]
572	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R302]
573	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R303]
574	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R304]
575	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R309]
576	VRS-CY1JB101J	AA		C	Resistor(1/16W 100Ω ±5%)	[R318]
577	VRS-CY1JB101J	AA		C	Resistor(1/16W 100Ω ±5%)	[R319]
578	VRS-CY1JB101J	AA		C	Resistor(1/16W 100Ω ±5%)	[R320]
579	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R321]
580	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R323]
581	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R324]
582	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R325]
583	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R326]
584	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R327]
585	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R328]
586	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R329]
587	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R330]
588	VRS-CY1JB562J	AA		C	Resistor(1/16W 5.6KΩ ±5%)	[R331]
589	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R332]
590	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R333]
591	VRS-CY1JB101J	AA		C	Resistor(1/16W 100Ω ±5%)	[R335]
592	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R336]
593	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R337]
594	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R338]
595	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R339]
596	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R340]
597	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R341]
598	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R342]
599	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R343]
600	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R344]
601	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R345]
602	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R346]
603	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R347]
604	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R348]
605	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R349]
606	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R351]
607	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R353]
608	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R354]
609	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R356]
610	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R358]
611	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R360]
612	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R361]
613	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R362]
614	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R363]
615	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R364]
616	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R365]
617	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R366]
618	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R367]
619	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R368]
620	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R369]
621	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R391]
622	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R392]
623	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R393]
624	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R394]
625	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R395]
626	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R396]
627	VRS-CY1JB222J	AA		C	Resistor(1/16W 2.2KΩ ±5%)	[R397]
628	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R399]
629	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R400]
630	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R401]
631	VRS-CY1JB101J	AA		C	Resistor(1/16W 100Ω ±5%)	[R402]
632	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R403]
633	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R404]
634	VRS-CY1JB271J	AA		C	Resistor(1/16W 270Ω ±5%)	[R405]
635	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R406]
636	VRS-CY1JB271J	AA		C	Resistor(1/16W 270Ω ±5%)	[R407]
637	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R408]
638	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R409]
639	VRS-CY1JB271J	AA		C	Resistor(1/16W 270Ω ±5%)	[R411]
640	VRS-CY1JB271J	AA		C	Resistor(1/16W 270Ω ±5%)	[R412]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[14] Control PWB unit						
641	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R413]
642	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R416]
643	VRS-CY1JB182J	AA		C	Resistor(1/16W 1.8KΩ ±5%)	[R417]
644	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R418]
645	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R419]
646	VRS-CY1JB101J	AA		C	Resistor(1/16W 100Ω ±5%)	[R420]
647	VRS-CY1JB101J	AA		C	Resistor(1/16W 100Ω ±5%)	[R421]
648	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R423]
649	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R424]
650	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R425]
651	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R426]
652	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R427]
653	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R428]
654	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R429]
655	VRS-CY1JB623J	AA		C	Resistor(1/16W 62KΩ ±5%)	[R432]
656	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R433]
657	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R434]
658	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R435]
659	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R436]
660	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R437]
661	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R438]
662	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R439]
663	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R440]
664	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R441]
665	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R442]
666	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R443]
667	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R444]
668	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R445]
669	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R446]
670	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R447]
671	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R450]
672	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R451]
673	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R452]
674	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R454]
675	VRS-CY1JB100J	AA		C	Resistor(1/16W 10Ω ±5%)	[R455]
676	VRS-CY1JB680J	AA		C	Resistor(1/16W 68Ω ±5%)	[R457]
677	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R458]
678	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R459]
679	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R460]
680	VRS-CY1JB203J	AA		C	Resistor(1/16W 20KΩ ±5%)	[R461]
681	VRS-CY1JB222J	AA		C	Resistor(1/16W 2.2KΩ ±5%)	[R462]
682	VRS-CY1JB203J	AA		C	Resistor(1/16W 20KΩ ±5%)	[R463]
683	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R464]
684	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R465]
685	VRS-CY1JB471J	AA		C	Resistor(1/16W 470Ω ±5%)	[R467]
686	VRS-CY1JB203J	AA		C	Resistor(1/16W 20KΩ ±5%)	[R468]
687	VRS-CY1JB333J	AA		C	Resistor(1/16W 33KΩ ±5%)	[R469]
688	VRS-CY1JB102J	AA		C	Resistor(1/16W 1KΩ ±5%)	[R470]
689	VRS-CY1JB102J	AA		C	Resistor(1/16W 1KΩ ±5%)	[R471]
690	VRS-CY1JB680J	AA		C	Resistor(1/16W 68Ω ±5%)	[R480]
691	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R481]
692	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R482]
693	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R483]
694	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R484]
695	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R485]
696	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R486]
697	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R487]
698	VRS-CY1JB101J	AA		C	Resistor(1/16W 100Ω ±5%)	[R488]
699	VRS-CY1JB101J	AA		C	Resistor(1/16W 100Ω ±5%)	[R489]
700	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R490]
701	VRS-CY1JB680J	AA		C	Resistor(1/16W 68Ω ±5%)	[R492]
702	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R493]
703	VRS-CY1JB680J	AA		C	Resistor(1/16W 68Ω ±5%)	[R494]
704	VRS-CY1JB680J	AA		C	Resistor(1/16W 68Ω ±5%)	[R495]
705	VRS-CY1JB680J	AA		C	Resistor(1/16W 68Ω ±5%)	[R496]
706	VRS-CY1JB680J	AA		C	Resistor(1/16W 68Ω ±5%)	[R497]
707	VRS-CY1JB101J	AA		C	Resistor(1/16W 100Ω ±5%)	[R498]
708	VRS-CY1JB101J	AA		C	Resistor(1/16W 100Ω ±5%)	[R499]
709	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R500]
710	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R501]
711	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R502]
712	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R503]
713	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R504]
714	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R506]
715	VRS-CY1JB101J	AA		C	Resistor(1/16W 100Ω ±5%)	[R507]
716	VRS-CY1JB101J	AA		C	Resistor(1/16W 100Ω ±5%)	[R508]
717	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R509]
718	VRS-CY1JB680J	AA		C	Resistor(1/16W 68Ω ±5%)	[R510]
719	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R511]
720	VRS-CY1JB102J	AA		C	Resistor(1/16W 1KΩ ±5%)	[R512]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[14] Control PWB unit						
721	VRSCY1JB4422F	AC		C	Resistor(1/16W 44.2KΩ ±1%)	[R514]
722	VRS-CY1JB332J	AA		C	Resistor(1/16W 3.3KΩ ±5%)	[R515]
723	VRS-CY1JB562J	AA		C	Resistor(1/16W 5.6KΩ ±5%)	[R516]
724	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R517]
725	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R518]
726	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R519]
727	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R520]
728	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R521]
729	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R522]
730	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R524]
731	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R525]
732	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R526]
733	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R527]
734	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R528]
735	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R529]
736	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R531]
737	VRS-CY1JB332J	AA		C	Resistor(1/16W 3.3KΩ ±5%)	[R532]
738	VRS-CY1JB332J	AA		C	Resistor(1/16W 3.3KΩ ±5%)	[R533]
739	VRS-CY1JB332J	AA		C	Resistor(1/16W 3.3KΩ ±5%)	[R534]
740	VRS-CY1JB332J	AA		C	Resistor(1/16W 3.3KΩ ±5%)	[R535]
741	VRS-CY1JB332J	AA		C	Resistor(1/16W 3.3KΩ ±5%)	[R536]
742	VRS-CY1JB222J	AA		C	Resistor(1/16W 2.2KΩ ±5%)	[R537]
743	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R551]
744	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R552]
745	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R553]
746	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R554]
747	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R555]
748	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R556]
749	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R557]
750	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R558]
751	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R559]
752	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R560]
753	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R561]
754	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R562]
755	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R563]
756	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R564]
757	VRS-TP2BD000J	AA		C	Resistor(1/8W 0Ω ±5%)	[R565]
758	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R566]
759	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R569]
760	VRS-CY1JB104J	AA		C	Resistor(1/16W 100KΩ ±5%)	[R570]
761	VRS-CY1JB154J	AA		C	Resistor(1/16W 150KΩ ±5%)	[R571]
762	VRS-CY1JB302J	AA		C	Resistor(1/16W 3KΩ ±5%)	[R572]
763	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R573]
764	VRS-CY1JB102J	AA		C	Resistor(1/16W 1KΩ ±5%)	[R574]
765	VRS-CY1JB511J	AA		C	Resistor(1/16W 510Ω ±5%)	[R575]
766	VRS-CY1JB223J	AA		C	Resistor(1/16W 22KΩ ±5%)	[R576]
767	VRSCY1JB4422F	AC		C	Resistor(1/16W 44.2KΩ ±1%)	[R577]
768	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R578]
769	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R579]
770	VRS-CY1JB563J	AA		C	Resistor(1/16W 56KΩ ±5%)	[R580]
771	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R581]
772	VRS-CY1JB332J	AA		C	Resistor(1/16W 3.3KΩ ±5%)	[R582]
773	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R600]
774	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R601]
775	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R602]
776	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R603]
777	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R604]
778	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R605]
779	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R606]
780	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R607]
781	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R608]
782	VRS-CY1JB102J	AA		C	Resistor(1/16W 1KΩ ±5%)	[R609]
783	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R610]
784	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R611]
785	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R612]
786	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R613]
787	VRS-CY1JB102J	AA		C	Resistor(1/16W 1KΩ ±5%)	[R614]
788	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R615]
789	VRS-CY1JB102J	AA		C	Resistor(1/16W 1KΩ ±5%)	[R617]
790	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R619]
791	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R620]
792	VRS-CY1JB2R0J	AD		C	Resistor(1/16W 2.0Ω ±5%)	[R624]
793	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R625]
794	RCRSP2193XHZZ	AL		B	Crystal(29.4400MHz)	[X1]
795	RCRMA2010XHZZ	AG		B	Crystal(16MHz)	[X2]
796	RCRSP2195XHZZ	AL		B	Crystal(34.3892MHz)	[X3]
797	RCRSP0074AFZZ	AE		B	Crystal(32.768kHz)	[X4]
798	RCRSP2194XHZZ	AL		B	Crystal(28.2240MHz)	[X5]
799	RH-EX2319XHZZ	AE		B	Zener diode(02DZ6.8-Y)	[ZD1]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[14] Control PWB unit						
	(Unit)					
901	DCEKC180SXHZZ	CU	N	E	Control PWB unit(Within ROM)	
[15] LIU PWB unit						
1	VHVRA391PV6-1	AE		B	Varistor(RA-391P-V6-2)	[AR1]
2	VHVRA501PC6-1	AG		B	Varistor(RA501P-C6)	[AR2]
3	VHVRA501PC6-1	AG		B	Varistor(RA501P-C6)	[AR3]
4	QTANZ2042SCZZ	AB		C	Earth terminal	[ARG]
5	RC-FZ3024SCZZ	AG		C	Capacitor(250WV 0.82µF)	[C1]
6	VCKYPA1HB103K	AA		C	Capacitor(50WV 0.01µF)	[C2]
7	VCEAGA1HW475M	AA		C	Capacitor(50WV 4.7µF)	[C5]
8	VCEAGA1HW475M	AA		C	Capacitor(50WV 4.7µF)	[C6]
9	VCKYPU1HB102K	AA		C	Capacitor(50WV 1000PF)	[C7]
10	VCQYNA1HM333K	AA		C	Capacitor(50WV 0.033µF)	[C8]
11	VCKYPU1HB102K	AA		C	Capacitor(50WV 1000PF)	[C9]
12	VCEAGA1HW475M	AA		C	Capacitor(50WV 4.7µF)	[C10]
13	VCEAGA1HW475M	AA		C	Capacitor(50WV 4.7µF)	[C11]
14	VCEAGA1HW475M	AA		C	Capacitor(50WV 4.7µF)	[C12]
15	VCKYPU1HB471K	AA		C	Capacitor(50WV 470PF)	[C15]
16	VCQYNA1HM333K	AA		C	Capacitor(50WV 0.033µF)	[C16]
17	VCEAGA1HW107M	AA		C	Capacitor(50WV 100µF)	[C18]
18	VCKYPU1HF223Z	AA		C	Capacitor(50WV 0.022µF)	[C19]
19	RRLYD3435XHZZ	AP		B	Relay(A5X-24E-95)	[CML1]
20	QCNCM7014SC0I	AB		C	Connector(9pin)	[CNLIU]
21	VHDDSS133//-1	AA		B	Diode(1SS133)	[D1]
22	VHDDSS133//-1	AA		B	Diode(1SS133)	[D2]
23	VHINJM2904D-1	AG		B	IC(NJM2904D)	[IC1]
⚠ 24	RFILN2027XHZZ	AC		C	Coil(R-5C)	[L1]
⚠ 25	RFILN2027XHZZ	AC		C	Coil(R-5C)	[L4]
26	RCILZ2118SCZZ	AD		C	Coil(1mH)	[L5]
27	QJAKZ2046SCBB	AH		C	Jack	[MJ1/2]
28	VHPPC817X4/-1	AC		B	Photo coupler(PC817X4)	[PC1]
29	VHPPC814X//-1	AE		B	Photo coupler(PC814X)	[PC3]
30	VS2SD592A-S-1	AK		B	Transistor(2SD592A)	[Q1]
31	VS2SD1200FR-1	AE		B	Transistor(2SD1200FR)	[Q2]
32	VSKRC106M//-1	AD		B	Transistor(KRC106M)	[Q4]
33	VSKRC106M//-1	AD		B	Transistor(KRC106M)	[Q5]
34	RR-HZ3011SCZZ	AC		C	Resistor(1/2W 4.7Ω ±5%)	[R4]
35	VRS-HT3AA133J	AB		C	Resistor(1W 13KΩ ±5%)	[R5]
36	VRD-HT2HY223J	AA		C	Resistor(1/2W 22KΩ ±5%)	[R6]
37	VRD-HT2EY183J	AA		C	Resistor(1/4W 18KΩ ±5%)	[R9]
38	VRD-HT2EY100J	AA		C	Resistor(1/4W 10Ω ±5%)	[R10]
39	VRD-HT2EY303J	AA		C	Resistor(1/4W 30KΩ ±5%)	[R11]
40	VRD-HT2EY910J	AA		C	Resistor(1/4W 91Ω ±5%)	[R12]
41	VRD-HT2EY300J	AA		C	Resistor(1/4W 30Ω ±5%)	[R13]
42	VRD-HT2EY201J	AA		C	Resistor(1/4W 200Ω ±5%)	[R14]
43	VRD-HT2EY391J	AA		C	Resistor(1/4W 390Ω ±5%)	[R15]
44	VRD-HT2EY621J	AA		C	Resistor(1/4W 620Ω ±5%)	[R16]
45	VRD-HT2EY223J	AA		C	Resistor(1/4W 22KΩ ±5%)	[R17]
46	VRD-HT2EY223J	AA		C	Resistor(1/4W 22KΩ ±5%)	[R18]
47	VRD-HT2EY751J	AA		C	Resistor(1/4W 750Ω ±5%)	[R19]
48	VRD-HT2EY223J	AA		C	Resistor(1/4W 22KΩ ±5%)	[R20]
49	VRD-HT2EY332J	AA		C	Resistor(1/4W 3.3KΩ ±5%)	[R21]
50	VRD-HT2EY223J	AA		C	Resistor(1/4W 22KΩ ±5%)	[R22]
51	VRD-HT2EY100J	AA		C	Resistor(1/4W 10Ω ±5%)	[R23]
52	VRD-HT2EY103J	AA		C	Resistor(1/4W 10KΩ ±5%)	[R24]
53	VRD-HT2EY103J	AA		C	Resistor(1/4W 10KΩ ±5%)	[R26]
54	VRD-HT2EY100J	AA		C	Resistor(1/4W 10Ω ±5%)	[R27]
55	RH-DX2007SCZZ	AC		B	Diode bridge(S1ZB60)	[REC1]
⚠ 56	RTRNZ2163SCZZ	AH		B	Transformer(TRTEP17-0411F)	[T1]
57	VHEHZ2C1///-1	AA		B	Zener diode(HZ2C1)	[ZD1]
58	VHEHZ2C1///-1	AA		B	Zener diode(HZ2C1)	[ZD2]
59	VHEHZ27-1//-1	AB		B	Zener diode(HZ27-1)	[ZD3]
60	VHE1ZC15///-1	AC		B	Zener diode(1ZC15)	[ZD4]
61	VHEMTZJ8R2B-1	AC		B	Zener diode(MTZJ8R2B)	[ZD5]
62	VHEHZ2C1///-1	AA		B	Zener diode(HZ2C1)	[ZD6]
63	VHEHZ2C1///-1	AA		B	Zener diode(HZ2C1)	[ZD7]
	(Unit)					
901	DCEKL422CXH01	BM		E	LIU PWB unit	
[16] Printer PWB unit						
1	VCEAGA1CW227M	AB		C	Capacitor(16WV 220µF)	[C2]
2	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C102]
3	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C105]
4	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C106]
5	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C107]
6	VCKYCY1EF104Z	AA		C	Capacitor(25WV 0.1µF)	[C109]
7	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C111]
8	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C112]
9	VCKYCY1HB103K	AA		C	Capacitor(50WV 0.01µF)	[C113]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[16] Printer PWB unit						
10	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C115]
11	VCKYCY1EB683K	AD		C	Capacitor(25WV 0.068µF)	[C116]
12	VCKYCY1HB103K	AA		C	Capacitor(50WV 0.01µF)	[C119]
13	VCKYCY1HB103K	AA		C	Capacitor(50WV 0.01µF)	[C120]
14	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C124]
15	VCKYCY1HB103K	AA		C	Capacitor(50WV 0.01µF)	[C126]
16	VCKYCY1HB103K	AA		C	Capacitor(50WV 0.01µF)	[C127]
17	VCCCCY1HH220J	AA		C	Capacitor(50WV 22PF)	[C128]
18	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C133]
19	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C134]
20	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C135]
21	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C136]
22	VCKYCY1EB333K	AB		C	Capacitor(25WV 0.033µF)	[C137]
23	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C138]
24	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C142]
25	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C144]
26	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C145]
27	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C146]
28	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C147]
29	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C148]
30	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C149]
31	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C150]
32	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C151]
33	VCKYCY1HB102K	AA		C	Capacitor(50WV 1000PF)	[C152]
34	VCCCCY1HH220J	AA		C	Capacitor(50WV 22PF)	[C153]
35	VCCCCY1HH220J	AA		C	Capacitor(50WV 22PF)	[C154]
36	RC-FZ3039XHZZ	AB		C	Capacitor(16WV 0.1µF)	[C155]
37	QCNCW2527SC3J	AM		C	Connector(30pin)	[CN1]
38	QCNCM2484SC0B	AB		C	Connector(2pin)	[CN2]
39	QCNCM2584SC0B	AC		C	Connector(2pin)	[CN3]
40	QCNCM2584SC1J	AK		C	Connector(10pin)	[CN4]
41	QCNCM2584SC0H	AH		C	Connector(8pin)	[CN5]
42	QCNCM2584SC0F	AH		C	Connector(6pin)	[CN6]
43	QCNCM2484SC0H	AD		C	Connector(8pin)	[CN7]
44	QCNCM2656SC0C	AF		C	Connector(3pin)	[CN8]
45	QCNCM7014SC0E	AB		C	Connector(5pin)	[CN9]
46	QCNCM2498SC0B	AB		C	Connector(2pin)	[CN10]
47	QCNCM2584SC1E	AL		C	Connector(5pin)	[CN11]
48	QCNCM2584SC0E	AD		C	Connector(5pin)	[CN12]
49	QCNCM2584SC0D	AD		C	Connector(4pin)	[CN13]
50	QCNCM2585SC0D	AD		C	Connector(4pin)	[CN14]
51	QCNCM2401SC0D	AC		C	Connector(4pin)	[CN15]
52	RH-DX2308XHZZ	AH		B	Diode(RB501V-40TE-17)	[D100]
53	VHD1SS355//-1	AB		B	Diode(1SS355)	[D101]
54	VHIULN2003ADR	AF		B	IC(ULN2003ADR)	[IC1]
55	RH-IX2307XHZZ	AP		B	IC(SN74LS06NS)	[IC2]
56	VHI74VHC02F-1	AF		B	IC(TC74VHC02F)	[IC3]
57	RH-IX2291XHZZ	BV		B	IC,MASK ROM(M38079EFFP)	[IC4]
58	VSDTB114EK/-1	AD		B	Transistor(DTB114EK)	[Q100]
59	VS2SA1037KS-1	AB		B	Transistor(2SA1037)	[Q101]
60	VSDTD123YK/-1	AC		B	Transistor(DTD123YK)	[Q102]
61	VSDTC114YU/-1	AC		B	Transistor(DTC114YUA)	[Q103]
62	VSDTC114YU/-1	AC		B	Transistor(DTC114YUA)	[Q104]
63	VSDTC114YU/-1	AC		B	Transistor(DTC114YUA)	[Q105]
64	VSDTC114YU/-1	AC		B	Transistor(DTC114YUA)	[Q106]
65	VRS-CY1JB472F	AD		C	Resistor(1/16W 4.7KΩ ±1%)	[R100]
66	VRS-CY1JB512F	AD		C	Resistor(1/16W 5.1KΩ ±1%)	[R101]
67	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R102]
68	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R105]
69	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R106]
70	VRS-CY1JB333J	AA		C	Resistor(1/16W 33KΩ ±5%)	[R107]
71	VRS-CY1JB103F	AB		C	Resistor(1/16W 10KΩ ±1%)	[R108]
72	VRS-CY1JB113F	AD		C	Resistor(1/16W 11KΩ ±1%)	[R109]
73	VRS-CY1JB222F	AB		C	Resistor(1/16W 2.2KΩ ±1%)	[R110]
74	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R111]
75	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R112]
76	VRS-CY1JB222J	AA		C	Resistor(1/16W 2.2KΩ ±5%)	[R113]
77	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R114]
78	VRS-CY1JB152F	AD		C	Resistor(1/16W 1.5KΩ ±1%)	[R115]
79	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R116]
80	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R117]
81	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R118]
82	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R119]
83	VRS-CY1JB101J	AA		C	Resistor(1/16W 100Ω ±5%)	[R120]
84	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R123]
85	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R124]
86	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R125]
87	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R126]
88	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R127]
89	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R128]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[16] Printer PWB unit						
90	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R129]
91	VRS-CY1JB222J	AA		C	Resistor(1/16W 2.2KΩ ±5%)	[R130]
92	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R131]
93	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R133]
94	VRS-CY1JB000J	AA		C	Resistor(1/16W 0Ω ±5%)	[R134]
95	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R135]
96	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R136]
97	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R137]
98	VRS-CY1JB473J	AA		C	Resistor(1/16W 47KΩ ±5%)	[R138]
99	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R139]
100	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R140]
101	VRS-CY1JB473J	AA		C	Resistor(1/16W 47KΩ ±5%)	[R141]
102	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R142]
103	VRS-CY1JB103J	AA		C	Resistor(1/16W 10KΩ ±5%)	[R143]
104	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R144]
105	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R145]
106	VRS-CY1JB473J	AA		C	Resistor(1/16W 47KΩ ±5%)	[R146]
107	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R147]
108	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R148]
109	VRS-CY1JB330J	AA		C	Resistor(1/16W 33Ω ±5%)	[R149]
110	VRS-CY1JB472J	AA		C	Resistor(1/16W 4.7KΩ ±5%)	[R150]
111	RR-TZ3045SCZZ	AD		C	Block resistor(39Ωx4)	[RA2]
112	RR-TZ3019SCZZ	AA		C	Block resistor(4.7KΩx4)	[RA3]
113	RR-TZ3046SCZZ	AD		C	Block resistor(820Ωx4)	[RA4]
114	RR-TZ3019SCZZ	AA		C	Block resistor(4.7KΩx4)	[RA5]
115	RR-TZ3046SCZZ	AD		C	Block resistor(820Ωx4)	[RA6]
116	RCRSP2197XHZZ	AL		B	Crystal(12MHz)	[X1]
	(Unit)					
901	DCEKC424CXH01	BW		E	Printer PWB unit	
[17] Power supply PWB unit						
1	0AV1480000087	AD		C	Capacitor(250WV 0.047µF)	[C701]
2	0AV1480000087	AD		C	Capacitor(250WV 0.047µF)	[C702]
3	0AV1690000106	AD		C	Capacitor(2200PF)	[C703]
4	0AV1690000106	AD		C	Capacitor(2200PF)	[C704]
5	0AV1690000106	AD		C	Capacitor(2200PF)	[C705]
6	0AV1390000202	AQ		C	Capacitor(200WV 390µF)	[C706]
7	0AV1690000117	AC		C	Capacitor(1KWV 2200PF)	[C707]
8	0AV1480000088	AC		C	Capacitor(50WV 0.01µF)	[C708]
9	0AV1480000089	AC		C	Capacitor(50WV 1000PF)	[C709]
10	0AV1480000089	AC		C	Capacitor(50WV 1000PF)	[C710]
11	0AV1480000090	AC		C	Capacitor(50WV 6800PF)	[C711]
12	0AV1480000091	AC		C	Capacitor(50WV 4700PF)	[C712]
13	0AV1690000118	AD		C	Capacitor(4700PF)	[C713]
14	0AV1690000118	AD		C	Capacitor(4700PF)	[C714]
15	0AV1390000203	AF		C	Capacitor(35WV 560µF)	[C715]
16	0AV1690000088	AC		C	Capacitor(50WV 0.1µF)	[C716]
17	0AV1390000181	AE		C	Capacitor(10WV 1000µF)	[C718]
18	0AV1480000089	AC		C	Capacitor(50WV 1000PF)	[C719]
19	0AV1390000189	AC		C	Capacitor(50WV 1µF)	[C720]
20	0AV1690000088	AC		C	Capacitor(50WV 0.1µF)	[C721]
21	0AV1480000088	AC		C	Capacitor(50WV 0.01µF)	[C722]
22	0AV1480000088	AC		C	Capacitor(50WV 0.01µF)	[C723]
23	0AV1480000092	AC		C	Capacitor(50WV 2200PF)	[C724]
24	0AV5030139000	AE		C	Connector(8pin)	[CN1]
25	0AV5030036000	AC		C	Connector(2pin)	[CN2]
26	0AV5030088000	AD		C	Connector(2pin)	[CN3]
27	0AV5030089000	AG		C	Connector(12pin)	[CN5]
28	0AV5150006000	AH		C	Connector(3pin)	[CNAC]
29	0AV3060046000	AC		B	Diode(RL155)	[D701]
30	0AV3060046000	AC		B	Diode(RL155)	[D702]
31	0AV3060046000	AC		B	Diode(RL155)	[D703]
32	0AV3060046000	AC		B	Diode(RL155)	[D704]
33	0AV3050086000	AB		B	Diode(1SS270ATD)	[D705]
34	0AV3050086000	AB		B	Diode(1SS270ATD)	[D706]
35	0AV3050086000	AB		B	Diode(1SS270ATD)	[D707]
36	0AV3070133000	AG		B	Zener diode(RD18ESAB3)	[D708]
37	0AV3050100000	AG		B	Diode(SF5LC20U)	[D710]
38	0AV3070113000	AE		B	Zener diode(RD30FB2)	[D711]
39	0AV3050086000	AB		B	Diode(1SS270ATD)	[D713]
40	0AV3070126000	AC		B	Zener diode(RD3.0ESAB2)	[D714]
41	0AV3050098000	AG		B	Diode(SF5SC4)	[D715]
42	0AV3050086000	AB		B	Diode(1SS270ATD)	[D716]
43	0AV3070134000	AE		B	Zener diode(RD6.2FB3)	[D717]
44	0AV3050086000	AB		B	Diode(1SS270ATD)	[D718]
45	0AV3050086000	AB		B	Diode(1SS270ATD)	[D719]
46	0AV3070135000	AC		B	Zener diode(RD33ESAB4)	[D720]
47	0AV3050086000	AB		B	Diode(1SS270ATD)	[D721]
48	0AV3050086000	AB		B	Diode(1SS270ATD)	[D722]
49	0AV3050086000	AB		B	Diode(1SS270ATD)	[D723]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[17] Power supply PWB unit						
50	0AV3070136000	AC		B	Zener diode(RD16ESAB2)	[D724]
51	0AV5060096000	AF		A	Fuse(8A/125V)	[F701]
52	0AV5060097000	AE		A	Fuse(4A/125V)	[F702]
53	0AV5060067000	AF		A	Fuse(4A/125V)	[F703]
54	0AV5060067000	AF		A	Fuse(4A/125V)	[F704]
55	0AV5060097000	AE		A	Fuse(4A/125V)	[F705]
56	0AV5070000016	AG		A	Fuse(2A/250V)	[F706]
57	0AV3090082000	AD		B	IC(KIA431A)	[IC701]
58	0AV3090082000	AD		B	IC(KIA431A)	[IC702]
59	0AV4070068000	AE		C	Coil	[L701]
60	0AV4070068000	AE		C	Coil	[L702]
61	0AV4120015000	AC		C	Coil	[L703]
62	0AV4080012000	AM		C	Coil	[L704]
63	0AV4050028000	AF		C	Coil	[L705]
64	0AV3080421100	AE		B	Photo coupler(TLP421GR)	[PC701]
65	0AV3180000005	AL		B	Photo triac coupler(MOC3063T-M)	[PC702]
66	0AV3043326000	AL		B	FET(2SK3326)	[Q701]
67	0AV3021741100	AC		B	Transistor(2SC1741STP)	[Q702]
68	0AV3001015500	AC		B	Transistor(2SA1015)	[Q703]
69	0AV3001015500	AC		B	Transistor(2SA1015)	[Q704]
70	0AV3040303000	AN		B	FET(2SJ303)	[Q705]
71	0AV3021741100	AC		B	Transistor(2SC1741STP)	[Q706]
72	0AV3001015500	AC		B	Transistor(2SA1015)	[Q707]
73	0AV3021815500	AC		B	Transistor(2SC1815)	[Q708]
74	0AV3021815500	AC		B	Transistor(2SC1815)	[Q709]
75	0AV3001015500	AC		B	Transistor(2SA1015)	[Q710]
76	0AV3000933100	AC		B	Transistor(2SA933S-Q)	[Q711]
77	0AV2011053020	AA		C	Resistor(1/4W 1MΩ ±5%)	[R701]
78	0AV2011023030	AC		C	Resistor(1/2W 1KΩ ±5%)	[R702]
79	0AV2990092000	AC		C	Resistor(1/6W 300KΩ ±0.5%)	[R703]
80	0AV2990093000	AC		C	Resistor(1/6W 390KΩ ±0.5%)	[R704]
81	0AV2990042000	AC		C	Resistor(1/6W 100KΩ ±0.5%)	[R705]
82	0AV2013913010	AA		C	Resistor(1/6W 390Ω ±5%)	[R706]
83	0AV2013333010	AA		C	Resistor(1/6W 33KΩ ±5%)	[R707]
84	0AV2013343010	AB		C	Resistor(1/6W 330KΩ ±5%)	[R708]
85	0AV2014733010	AA		C	Resistor(1/6W 47KΩ ±5%)	[R709]
86	0AV2990094000	AC		C	Resistor(1/6W 33KΩ ±0.5%)	[R710]
87	0AV2990095000	AC		C	Resistor(1/6W 180KΩ ±0.5%)	[R711]
88	0AV2014723010	AA		C	Resistor(1/6W 4.7KΩ ±5%)	[R712]
89	0AV2012713010	AA		C	Resistor(1/6W 270Ω ±5%)	[R713]
90	0AV2013313010	AA		C	Resistor(1/6W 330Ω ±5%)	[R714]
91	0AV2012733010	AA		C	Resistor(1/6W 27KΩ ±5%)	[R715]
92	0AV2990096000	AC		C	Resistor(1/6W 4.7KΩ ±0.5%)	[R716]
93	0AV2990039000	AC		C	Resistor(1/6W 680Ω ±0.5%)	[R717]
94	0AV2011013010	AA		C	Resistor(1/6W 100Ω ±5%)	[R718]
95	0AV2013913010	AA		C	Resistor(1/6W 390Ω ±5%)	[R719]
96	0AV2014723010	AA		C	Resistor(1/6W 4.7KΩ ±5%)	[R720]
97	0AV2013323010	AA		C	Resistor(1/6W 3.3KΩ ±5%)	[R721]
98	0AV2990009000	AC		C	Resistor(1/6W 22.1KΩ ±0.5%)	[R722]
99	0AV2990097000	AC		C	Resistor(1/6W 2.58KΩ ±0.5%)	[R723]
100	0AV2011033010	AA		C	Resistor(1/6W 10KΩ ±5%)	[R725]
101	0AV2014703010	AA		C	Resistor(1/6W 4.7Ω ±5%)	[R726]
102	0AV2011033010	AA		C	Resistor(1/6W 10KΩ ±5%)	[R727]
103	0AV2012223010	AA		C	Resistor(1/6W 2.2KΩ ±5%)	[R728]
104	0AV2014713010	AA		C	Resistor(1/6W 470Ω ±5%)	[R729]
105	0AV2011033010	AA		C	Resistor(1/6W 10KΩ ±5%)	[R730]
106	0AV2014723010	AA		C	Resistor(1/6W 4.7KΩ ±5%)	[R731]
107	0AV2012223010	AA		C	Resistor(1/6W 2.2KΩ ±5%)	[R732]
108	0AV2990007000	AC		C	Resistor(1/6W 2.2KΩ ±0.5%)	[R733]
109	0AV2990046000	AC		C	Resistor(1/6W 2.26KΩ ±0.5%)	[R734]
110	0AV2021223040	AC		C	Resistor(1W 1.2KΩ ±5%)	[R735]
111	0AV2012223010	AA		C	Resistor(1/6W 2.2KΩ ±5%)	[R736]
112	0AV2011033010	AA		C	Resistor(1/6W 10KΩ ±5%)	[R737]
113	0AV2011033010	AA		C	Resistor(1/6W 10KΩ ±5%)	[R738]
114	0AV2012223010	AA		C	Resistor(1/6W 2.2KΩ ±5%)	[R739]
115	0AV2012223010	AA		C	Resistor(1/6W 2.2KΩ ±5%)	[R740]
116	0AV2011033010	AA		C	Resistor(1/6W 10KΩ ±5%)	[R741]
117	0AV2011033010	AA		C	Resistor(1/6W 10KΩ ±5%)	[R742]
118	0AV2013303030	AA		C	Resistor(1/2W 33Ω ±5%)	[R743]
119	0AV2014733010	AA		C	Resistor(1/6W 47KΩ ±5%)	[R744]
120	0AV2016833010	AA		C	Resistor(1/6W 68KΩ ±5%)	[R745]
121	0AV2012713010	AA		C	Resistor(1/6W 270Ω ±5%)	[R746]
122	0AV2014733010	AA		C	Resistor(1/6W 47KΩ ±5%)	[R747]
123	0AV2011033010	AA		C	Resistor(1/6W 10KΩ ±5%)	[R748]
124	0AV2016823010	AA		C	Resistor(1/6W 6.8KΩ ±5%)	[R749]
125	0AV5110012000	AB		C	Jumper wire(6mm)	[RJ701]
126	0AV5110006000	AA		C	Jumper wire(12.5mm)	[RJ702]
127	0AV5110004000	AA		C	Jumper wire(20mm)	[RJ703]
128	0AV5110011000	AB		C	Jumper wire(17.5mm)	[RJ704]
129	0AV5110012000	AB		C	Jumper wire(6mm)	[RJ705]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	
[17] Power supply PWB unit						
130	0AV5110001000	AA		C	Jumper wire(10mm)	[RJ706]
131	0AV5110001000	AA		C	Jumper wire(10mm)	[RJ707]
132	0AV5110001000	AA		C	Jumper wire(10mm)	[RJ708]
133	0AV5110003000	AA		C	Jumper wire(7.5mm)	[RJ709]
134	0AV5110004000	AA		C	Jumper wire(20mm)	[RJ710]
135	0AV5110018000	AB		C	Jumper wire(22.5mm)	[RJ711]
136	0AV5110006000	AA		C	Jumper wire(12.5mm)	[RJ712]
137	0AV5110003000	AA		C	Jumper wire(7.5mm)	[RJ713]
138	0AV5110006000	AA		C	Jumper wire(12.5mm)	[RJ714]
139	0AV5110012000	AB		C	Jumper wire(6mm)	[RJ715]
140	0AV5110018000	AB		C	Jumper wire(22.5mm)	[RJ716]
141	0AV5110001000	AA		C	Jumper wire(10mm)	[RJ717]
142	0AV5110004000	AA		C	Jumper wire(20mm)	[RJ718]
143	0AV5110002000	AA		C	Jumper wire(15mm)	[RJ719]
144	0AV5080009000	AP		B	Relay(DH1U)	[RL701]
145	0AV5040012000	AM		C	Switch(SDDJE34100)	[S701]
146	0AV3170001000	AE		B	Thyristor(CR02AM4)	[SR701]
147	0AV4000137111	AR		B	Transformer(N-T01-371)	[T701]
148	0AV5140023000	AE		B	Thermistor(M5R110T3C)	[TH701]
149	0AV3160036000	AQ		B	Triac(BCR16PM-12LP-AA)	[TR701]
150	0AV5190002000	AF		B	Varistor(ENC271D-10A)	[X701]
151	0AV5190002000	AF		B	Varistor(ENC271D-10A)	[X702]
152	0AV5190002000	AF		B	Varistor(ENC271D-10A)	[X703]
153	0AV5190025000	AK		B	Arestor(RA-302M-V7-Y)	[Z701]
154	0AV5050005000	AA		C	Holder	
155	0AV6113121011	AH		C	Bracket	
156	0AV6114128011	AF		C	Bracket	
157	0AV6114128111	AF		C	Terminal	
158	0AV6114128211	AF		C	Heat sink	
159	0AV7414138411	AD		D	Label	
160	0AV8117730314	AB		C	Screw(3x6)	
161	0AV8117730414	AB		C	Screw(3x8)	
	(Unit)					
⚠ 901	RDENT2181XHZZ	BX		E	Power supply PWB unit	
[18] Operation panel PWB unit						
1	QSW-K0005AWZZ	AC		C	Tact switch	[SW]
⚠ 2	QSW-Z2326SCZZ	AL		C	Paper guide switch	[SW-A]
	(Unit)					
901	DCEKP425CXHP2	BC		E	Operation panel PWB unit	
[19] LED PWB unit						
901	DCEKP425CXHL3	BB	N	E	LED PWB unit	
[20] LCD Relay PWB unit						
901	DCEKD442CXH01	AS		E	LCD Relay PWB unit	
[21] High voltage PWB unit						
901	0KW4127620701	BN		E	High voltage PWB unit	
[22] Toner empty PWB unit						
901	0KW4127011301	AY		E	Toner empty PWB unit	

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PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
[C]				
CBSHP2079XH02	6-1	AZ		C
CCABA2406XH03	4-902	CE	N	E
CCASP2163XH53	4-901	BR	N	E
CCASP2164XH01	11-901	BS		E
CCNW-4955XH02	1-1	AL		C
CMOTZ2146XH01	3-1	BH		E
CMOTZ2180XH02	12-10	BD	N	E
CPLTP2803XHC4	13-6	AZ		C
CPLTP3009XHC5	13-7	AY		C
CROLP2320XH01	2-1	AZ		C
CROLR2595XH01	12-11	AQ		C
[D]				
DCEKC180SXHZZ	1-24	CU	N	E
〃	14-901	CU	N	E
DCEKC424CXH01	1-23	BW		E
〃	16-901	BW		E
DCEKD442CXH01	4-35	AS		E
〃	20-901	AS		E
DCEKL422CXH01	1-25	BM		E
〃	15-901	BM		E
DCEKP425CXHL3	4-31	BB	N	E
〃	19-901	BB	N	E
DCEKP425CXHP2	4-7	BC		E
〃	18-901	BC		E
DCEKZ426CXH01	12-12	BK		E
DUNT-429CSCZZ	13-4	BZ	N	S
DUNT-454BSCZZ	13-16	CA		S
[G]				
GCABA2404XHSC	1-26	BB	N	D
GCABA2406XHSA	4-1	AP		D
GCABB2405XHSA	1-27	BE		D
GCABB2408XHSA	4-2	AQ		D
GCABC2409XHSA	1-28	AS		D
GCABD2410XHSA	1-29	AX		D
GCABD2416XHSA	1-57	AS		D
GCABD2417XHSA	1-58	AS		D
GCABE2411XHSA	1-2	AX		D
GCABG2412XHSA	12-1	BM		D
GCASP2163XHSC	4-10	AZ	N	D
GCASP2164XHSA	11-1	BG		C
GCOVA2408XHSC	1-30	AL		C
GCOVA2460XHSA	2-2	BB		C
GLEGG2082XHZZ	12-36	AE		C
[H]				
HPNLH2423XHZC	4-29	BD	N	D
[J]				
JBTN-2368XHSA	4-11	AN		C
JBTN-2369XHSA	4-12	AP		C
JBTN-2370XHSA	4-13	AE		C
JBTN-2371XHSA	4-14	AE		C
JBTN-2372XHSA	4-15	AG		C
JBTN-2374XHSA	4-16	AH		C
JBTN-2375XHSA	4-17	AH		C
JBTN-2376XHSB	2-3	AF		C
[L]				
LANGF2819XHZZ	5-1	AF		C
LANGF2850XHZZ	1-59	AU		C
LANGF2851XHZZ	1-60	AQ		C
LANGF2857XHZZ	1-61	AM		C
LANGP2848XHZZ	1-31	AE		C
LANGT2849XHZZ	1-32	AH		C
LBNDJ2006XHZZ	1-33	AA		C
〃	12-45	AA		C
LBNDJ2013XHZZ	1-54	AM		C
LBSHP2109XHZZ	12-15	AF		C
LBSHP2113XHZA	12-16	AE		C
LBSHP2113XHZZ	6-2	AH		C
LBSHP2147XHZZ	12-42	AE		C
LFRM-2201XHZZ	6-3	AL		C
LFRM-2233XHZZ	1-34	AV		C
LFRM-2234XHZZ	1-35	AX		C
LHLDW2158SCZZ	1-36	AC		C
LHLDW2182SCZZ	1-62	AC		C
LHLDW2183SCZZ	1-37	AD		C
LHLDW2238XHZZ	11-2	AE		C
LHLDZ2239XHZZ	12-17	AE		C
LPINS2032XHZZ	12-18	AF		C
LPLTM3011XHZZ	5-2	AK		C
LPLTM3012XHZZ	6-4	AL		C
LPLTM3228XHZZ	2-4	AE		C
LPLTM3229XHZZ	2-5	AH		C
LPLTM3235XHZZ	1-38	AV		C
LPLTM3236XHZZ	1-39	AZ		C
LPLTM3237XHZZ	11-3	AZ		C
LPLTM3238XHZZ	12-19	BD		C
LPLTM3239XHZZ	12-20	AR		C
LPLTM3267XHZZ	1-9	AT		C
LPLTP2819XHZZ	5-3	AD		C
LPLTP2821XHZZ	5-4	AD		C
LPLTP3023XHZZ	12-2	AF		C
LPLTP3044XHZZ	12-3	AF		C
LPLTP3223XHSA	4-18	AH		C
LPLTP3224XHSA	4-28	AH		C
LPLTP3225XHZZ	4-19	AE		C
LPLTP3226XHZZ	4-20	AE		C
LPLTP3227XHSA	1-14	BE		C
LPLTP3230XHZZ	11-4	AE		C
LPLTP3231XHZZ	11-5	AH		C
LPLTP3232XHZZ	11-6	AE		C
LPLTP3233XHZZ	11-7	AE		C
LPLTP3234XHZZ	11-8	AE		C
LPLTP3242XHZZ	12-21	AE		C
LPLTP3252XHZZ	12-22	AE		C
LRALP2025XHZZ	12-23	AL		C
LRALP2026XHZZ	12-24	AL		C
LSTPP2052XHZZ	5-5	AD		C
LX-BZ2138XHZZ	2-B1	AB		C
LX-BZ2205XHZZ	1-B4	AC		C
〃	2-B2	AC		C
〃	11-B1	AC		C
〃	12-B1	AC		C
LX-BZ2241XHZZ	1-B5	AC		C
LX-BZ2282XHZZ	1-B1	AB		C
LX-BZ2291XHZZ	11-B3	AE		C
〃	12-B2	AE		C
[M]				
MLEVP2304XHSB	5-6	AL		C
MLEVP2308XHZZ	12-25	AD		C
MLEVP2309XHZZ	12-4	AE		C
MLEVP2374XHZZ	2-6	AE		C
MLEVP2376XHZZ	2-7	AE		C
MLOK-2008XHZZ	12-26	AC		C
MSPRC2843XHZZ	5-7	AC		C
MSPRC3095XHZZ	12-5	AD		C
MSPRC3126XHZZ	5-8	AG		C
MSPRC3138XHZZ	6-5	AE		C
MSPRC3149XHZZ	2-8	AB		C
MSPRC3180XHZZ	5-9	AD		C
MSPRC3181XHZZ	12-27	AD		C
MSPRC3347XHZZ	4-21	AE		C
MSPRC3348XHZZ	2-9	AE		C
MSPRC3350XHZZ	2-10	AE		C
MSPRC3374XHZZ	2-11	AC		C
MSPRC3375XHZZ	2-12	AD		C
MSPRC3376XHZZ	11-9	AL		C
MSPRC3378XHZZ	12-28	AE		C
MSPRD3086XHZZ	6-6	AH		C
MSPRD3091XHZZ	2-13	AF		C
MSPRD3093XHZZ	12-6	AG		C
MSPRD3125XHZZ	11-10	AD		C
MSPRD3179XHZZ	5-10	AD		C
MSPRD3377XHZZ	11-11	AE		C
MSPRD3404XHZZ	12-41	AH		C
MSPRP2841XHZZ	6-7	AC		C
MSPRP3055XHFJ	1-40	AD		C
MSPRP3083XHZZ	5-11	AF		C
MSPRP3087XHZZ	6-9	AF		C
MSPRP3088XHZZ	6-8	AF		C
MSPRP3355XHZZ	4-22	AH		C
[N]				
NBRGP2128XHZA	6-10	AE		C
NBRGP2138XHZZ	6-11	AD		C
NBRGP2141XHZZ	6-12	AH		C
NGERH2319XHZZ	6-13	AD		C
NGERH2320XHZZ	6-14	AD		C
NGERH2322XHZZ	6-15	AC		C
NGERH2462XHZZ	6-16	AC		C
NGERH2463XHZZ	6-17	AC		C
NGERH2466XHZZ	1-3	AE		C
NGERH2466XHZZ	2-14	AE		C
NGERH2469XHZZ	12-29	AC		C
NGERH2472XHZZ	12-30	AA		C
NGERH2602XHZZ	2-15	AH		C
NGERH2603XHZZ	2-16	AE		C
NGERP2318XHZZ	2-17	AD		C
NROLP2332XHZZ	6-18	AD		C
NROLP2334XHZA	5-12	AC		C
〃	12-7	AC		C
NROLP2420XHZZ	1-4	AM		C
NROLP2421XHZZ	2-18	AM		C
NROLP2493XHZZ	11-28	AE		C
〃	12-32	AE		C
NROLR2338XHZZ	6-20	AK		C
NROLR2417XHZZ	6-19	AH		C
NROLR2418XHZZ	6-21	AL		C
NROLR2419XHZZ	6-22	AK		C
NROLR2496XHZZ	12-33	AU		C
NSFTZ2306XHZZ	5-13	AD		C
NSFTZ2307XHZZ	6-23	AK		C
NSFTZ2308XHZZ	6-24	AL		C
NSFTZ2309XHZZ	12-8	AC		C
NSFTZ2312XHZZ	12-9	AC		C
NSFTZ2365XHZZ	12-34	AS		C
[P]				
PBRS-2048XHZZ	6-25	AD		C
PBRS-2059XHZZ	5-14	AK		C
PCAPH2032XHZZ	11-12	AC		C
PCUSG2186XHZA	11-13	AG	N	C
PCUSS2185XHZZ	4-3	AQ		C
PCUSS2188XHZZ	1-53	AE		C
PCUSS2190XHZZ	4-33	AG		C
PGIDM2539XHZD	5-15	AT	N	C
PGIDM2540XHZZ	5-16	AF		C
PGIDM2541XHSD	6-36	AP		C
PGIDM2544XHSB	2-19	AL		C
PGIDM2545XHSB	2-20	AL		C
PGIDM2635XHZZ	1-41	AQ		C
PGIDM2636XHSA	1-15	AH		C
PGIDM2637XHSA	1-16	AH		C
PGIDM2638XHSA	1-17	AH		C
PGIDM2639XHZZ	2-21	AX		C
PGIDM2640XHZZ	2-22	AY		C
PGIDM2641XHZZ	11-14	AY		C
PGIDM2642XHZZ	11-15	AY		C
PGIDM2643XHZZ	12-35	AL		C
PGUMM2162XHZZ	5-17	AF		C
PGUMM2201XHZZ	4-23	AF		C
PGUMM2202XHZZ	4-24	AE		C
PLEGP2071XHZZ	1-42	AE		C
PSHEP3768XHZZ	4-32	AF		C
PSHEZ3410XHZZ	1-47	AB		C
PSHEZ3418XHZZ	5-18	AC		C
PSHEZ3419XHZZ	5-19	AB		C
PSHEZ3455XHZZ	2-23	AF		C
PSHEZ3738XHZZ	5-20	AE		C
PSHEZ3740XHZZ	1-43	AL		C
PSHEZ3741XHSA	2-24	AE		C
PSHEZ3742XHSA	2-25	AE		C
PSHEZ3743XHZZ	1-44	AN		C
PSHEZ3745XHZL	11-17	AH		C
PSHEZ3745XHZR	11-18	AH		C
PSHEZ3752XHSA	4-26	AF		C
PSHEZ3753XHZZ	5-22	AE		C
PSHEZ3754XHZZ	11-16	AH		D
PSHEZ3764XHZZ	6-37	AB		C
PSHEZ3777XHZZ	2-29	AE		C
PSHEZ3778XHZZ	2-30	AD		C
PSHEZ3779XHZZ	2-31	AD		C
PSPAZ2269XHZZ	1-66	AG	N	C
PSPAZ2270XHZZ	1-67	AK	N	C
PSPAZ2271XHZZ	13-24	AR	N	C
PSPAZ2272XHZZ	13-25	AG	N	C
PSPO-2001XHZZ	1-18	AD		C
PSPO-2008XHZZ	11-20	AE		C
PSPO-2013XHZZ	1-19	AE		C
PSPO-2014XHZZ	2-26	AL		C
PSPO-2015XHZZ	2-27	AH		C
PSPO-2016XHZZ	11-19	AH		C
PSTM-2015SCZZ	6-34	AX		E

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
PTME-2064XHZA	11-21	AF		C
PTME-2067XHZZ	6-26	AK		C
PTME-2073XHZZ	2-28	AH		C
PTME-2074XHZZ	11-22	AE		C
PTME-2075XHZZ	11-23	AU		C
PTME-2076XHZZ	11-24	AU		C
[Q]				
QACCD2062XHZZ	13-8	AQ		B
QCNCM2401SC0B	14-278	AA		C
QCNCM2401SC0D	16-51	AC		C
QCNCM2482SC1F	14-266	AF		C
QCNCM2482SC1H	14-265	AE		C
QCNCM2482SC2D	14-273	AB		C
QCNCM2484SC0B	16-38	AB		C
QCNCM2484SC0H	16-43	AD		C
QCNCM2498SC0B	16-46	AB		C
QCNCM2525SC3J	14-274	AH		C
QCNCM2584SC0B	16-39	AC		C
QCNCM2584SC0D	16-49	AD		C
QCNCM2584SC0E	16-48	AD		C
QCNCM2584SC0F	16-42	AH		C
QCNCM2584SC0H	16-41	AH		C
QCNCM2584SC1E	16-47	AL		C
QCNCM2584SC1J	16-40	AK		C
QCNCM2585SC0D	16-50	AD		C
QCNCM2589SC3J	14-270	AP		C
QCNCM2611SC6J	14-268	AX	N	C
QCNCM2656SC0C	16-44	AF		C
QCNCM7014SC0B	14-279	AD		C
QCNCM7014SC0C	14-272	AA		C
QCNCM7014SC0D	14-280	AB		C
QCNCM7014SC0E	14-276	AB		C
〃	16-45	AB		C
QCNCM7014SC0H	14-277	AB		C
QCNCM7014SC0I	14-267	AB		C
〃	15-20	AB		C
QCNCM7014SC1B	14-275	AD		C
QCNCM7014SC1J	14-264	AC		C
QCNCW2527SC3J	16-37	AM		C
QCNCW2527SC6J	14-269	AV		C
QCNCW2612SC6J	14-271	BA		C
QCNCW2662SC0B	1-13	AE		C
QCNW-277AXHZZ	1-50	AY		C
〃	6-27	AY		C
QCNW-290ASCZZ	13-9	AE		C
QCNW-4953XHZZ	1-8	AK		C
〃	6-28	AK		C
QCNW-4964XHZZ	12-37	AF		C
QCNWN262BXHZZ	1-10	AS		C
QCNWN263BXHZZ	1-11	AP		C
QCNWN264BXHZZ	12-44	AU		C
QCNWN268BXHZZ	1-20	AK		C
QCNWN269BXHZZ	1-49	AK		C
QCNWN270BXHZZ	5-21	AF		C
QCNWN272BXHZZ	12-38	AH		C
QCNWN274BXHZZ	1-45	AN		C
QCNWN290BXHZZ	1-51	BA	N	C
〃	4-27	BA		C
QCNWN292BXHZZ	1-56	AX	N	C
〃	4-36	AX		C
QCNWN293BXHZZ	4-4	AM		C
QCNWN295BXHZZ	4-5	AH		C
QJAKZ2046SCBB	15-27	AH		C
QSW-K0005AWZZ	4-8	AC		C
〃	18-1	AC		C
QSW-M2219SCZZ	12-40	AD		C
QSW-M2296XHZZ	1-21	AD		B
〃	1-52	AD		B
〃	6-29	AD		B
QSW-M2298XHZZ	6-30	AE		C
QSW-M2323XHZZ	12-39	AQ		C
QSW-M2324XHZZ	1-5	AN		C
QSW-Z2237SCZZ	6-31	AE		B
QSW-Z2326SCZZ	4-9	AL		C
〃	18-2	AL		C
QTANZ2042SCZZ	15-4	AB		C
[R]				
RC-EZ3088XHZZ	14-243	AK		C
RC-EZ3097XHZZ	14-240	AP		C
RC-FZ3024SCZZ	15-5	AG		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
RC-FZ3039XHZZ	16-36	AB		C
RCILZ1081YCZZ	14-335	AF		C
RCILZ2118SCZZ	15-26	AD		C
RCORF2124XHZZ	1-55	AE		B
〃	6-32	AE		B
〃	12-43	AE		B
RCORF2125XHZZ	3-2	AE		B
RCRMA2010XHZZ	14-795	AG		B
RCRSC2196XHZZ	14-341	AH		B
RCRSP0074AFZZ	14-797	AE		B
RCRSP2193XHZZ	14-794	AL		B
RCRSP2194XHZZ	14-798	AL		B
RCRSP2195XHZZ	14-796	AL		B
RCRSP2197XHZZ	16-116	AL		B
RDENT2181XHZZ	1-12	BX		E
〃	17-901	BX		E
RFILN2027XHZZ	15-24	AC		C
〃	15-25	AC		C
RH-DX2007SCZZ	15-55	AC		B
RH-DX2308XHZZ	16-52	AH		B
RH-EX2319XHZZ	14-799	AE		B
RH-IX2172SCZZ	14-312	BC		B
RH-IX2235XHZZ	14-319	BD		B
RH-IX2239SCZZ	14-304	AG		B
〃	14-311	AG		B
RH-IX2291XHZZ	16-57	BV		B
RH-IX2292XHZZ	14-328	BV		B
RH-IX2293XHZZ	14-324	BU		B
RH-IX2294SCZZ	14-308	BZ		B
RH-IX2295SCZZ	14-321	BK		B
RH-IX2296XHZZ	14-307	BG		B
RH-IX2297XHZZ	14-325	BK		B
RH-IX2299XHZZ	14-315	BA		B
RH-IX2300XHZZ	14-309	AL		B
〃	14-331	AL		B
RH-IX2301XHZZ	14-320	AL		B
RH-IX2302XHZZ	14-316	AH		B
〃	14-317	AH		B
RH-IX2303XHZZ	14-313	AG		B
RH-IX2304XHZZ	14-303	AX		B
RH-IX2307XHZZ	16-55	AP		B
RH-IX2317XHZZ	14-333	AQ		B
RH-IX2320XHZZ	14-329	AL		B
RH-IX2323XHZZ	14-306	AP		B
RH-IX2340XHZZ	14-334	AR		B
RR-HZ3011SCZZ	15-34	AC		C
RR-TZ3012SC00	14-2	AB		C
〃	14-3	AB		C
〃	14-4	AB		C
〃	14-5	AB		C
RR-TZ3016SCZZ	14-10	AA		C
〃	14-11	AA		C
〃	14-12	AA		C
〃	14-13	AA		C
〃	14-14	AA		C
〃	14-15	AA		C
〃	14-16	AA		C
〃	14-17	AA		C
〃	14-22	AA		C
〃	14-23	AA		C
〃	14-24	AA		C
〃	14-25	AA		C
〃	14-26	AA		C
〃	14-27	AA		C
〃	14-28	AA		C
〃	14-29	AA		C
〃	14-30	AA		C
〃	14-31	AA		C
RR-TZ3019SCZZ	16-112	AA		C
〃	16-114	AA		C
RR-TZ3023SCZZ	14-6	AC		C
〃	14-7	AC		C
〃	14-8	AC		C
〃	14-9	AC		C
〃	14-18	AC		C
〃	14-19	AC		C
〃	14-20	AC		C
〃	14-21	AC		C
RR-TZ3044SCZZ	14-32	AD		C
〃	14-33	AD		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
RR-TZ3044SCZZ	14-34	AD		C
RR-TZ3045SCZZ	16-111	AD		C
RR-TZ3046SCZZ	16-113	AD		C
〃	16-115	AD		C
RRLYD3435XHZZ	15-19	AP		B
RTRNZ2163SCZZ	15-56	AH		B
RUNTZ2095SCZZ	4-6	BT		E
RUNTZ2096SCZZ	4-34	AX		E
RUNTZ2104XHB4	6-33	BW		E
[S]				
SPAKA227EXHZZ	13-22	AL		D
SPAKA228EXHZZ	13-23	AG		D
SPAKA293EXHZZ	13-17	AF		C
SPAKA294EXHZZ	13-18	AE		C
SPAKA343EXHZZ	13-19	AG		D
SPAKA344EXHZZ	13-5	AL		D
SPAKA345EXHZZ	13-20	AD		D
SPAKA422DXHZZ	13-10	AS		D
SPAKA423DXHZZ	13-11	AY		D
SPAKA431DXHZZ	13-12	AR	N	D
SPAKA432DXHZZ	13-13	AR	N	D
SPAKA433DXHZZ	13-21	AF	N	D
SPAKC430DXHTZ	13-14	AY	N	D
SPAKP499DXHZZ	13-15	AL		D
[T]				
TINSE4302XHTB	13-1	AS	N	D
TLABH215EXHZZ	1-22	AD		D
TLABH292FXHZZ	11-29	AL	N	D
TLABH424EXHZZ	11-25	AS		D
TLABH425EXHZA	11-26	AE		D
TLABH426EXHZZ	11-27	AE		D
TLABP391EXHZZ	13-2	AE		D
TLABP394EXHZZ	1-6	AE		D
TLABP395EXHZZ	1-7	AE		D
TLABS247FXHZZ	1-48	AE	N	D
TLABZ392EXHZZ	13-3	AD		D
TLABZ462FXHZZ	12-46	AE	N	C
[U]				
UBATL2071XHZZ	14-1	AL		B
UINK-2009SC01	6-35	BA		C
[V]				
VCCCCY1HH100D	14-84	AA		C
VCCCCY1HH101J	14-99	AA		C
〃	14-167	AA		C
〃	14-213	AA		C
VCCCCY1HH120J	14-132	AA		C
〃	14-172	AA		C
VCCCCY1HH150J	14-138	AB		C
VCCCCY1HH180J	14-56	AA		C
〃	14-173	AA		C
VCCCCY1HH220J	16-17	AA		C
〃	16-34	AA		C
〃	16-35	AA		C
VCCCCY1HH221J	14-74	AA		C
VCCCCY1HH330J	14-100	AA		C
〃	14-101	AA		C
VCCCCY1HH331J	14-71	AB		C
〃	14-72	AB		C
〃	14-217	AB		C
〃	14-231	AB		C
VCCCCY1HH470J	14-119	AA		C
VCCCCY1HH471J	14-70	AA		C
〃	14-73	AA		C
〃	14-140	AA		C
〃	14-232	AA		C
VCCCCY1HH560J	14-186	AA		C
VCCCCY1HH7R0D	14-187	AA		C
VCCCCY1HH8R0D	14-85	AA		C
VCEAEA1CW106M	14-241	AC		C
〃	14-248	AC		C
〃	14-251	AC		C
〃	14-257	AC		C
〃	14-259	AC		C
VCEAEA1CW107M	14-239	AC		C
〃	14-242	AC		C
〃	14-260	AC		C
VCEAEA1CW226M	14-247	AA		C
〃	14-249	AA		C
〃	14-250	AA		C
VCEAEA1CW336M	14-252	AB		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VCEAEA1CW336M	14-261	AB		C
〃	14-262	AB		C
VCEAEA1CW476M	14-246	AA		C
〃	14-255	AA		C
〃	14-256	AA		C
〃	14-258	AA		C
VCEAEA1EW475M	14-253	AA		C
VCEAEA1HW105M	14-254	AC		C
VCEAEA1HW226M	14-244	AB		C
〃	14-245	AB		C
VCEAEA1VW476M	14-263	AH		C
VCEAGA1CW227M	16-1	AB		C
VCEAGA1HW107M	15-17	AA		C
VCEAGA1HW475M	15-7	AA		C
〃	15-8	AA		C
〃	15-12	AA		C
〃	15-13	AA		C
〃	15-14	AA		C
VCKYCY1AF105Z	14-79	AC		C
〃	14-80	AC		C
〃	14-82	AC		C
〃	14-104	AC		C
〃	14-105	AC		C
〃	14-107	AC		C
〃	14-108	AC		C
〃	14-141	AC		C
〃	14-148	AC		C
〃	14-164	AC		C
〃	14-165	AC		C
〃	14-166	AC		C
〃	14-175	AC		C
〃	14-176	AC		C
〃	14-177	AC		C
〃	14-178	AC		C
〃	14-197	AC		C
VCKYCY1CB104K	14-179	AB		C
〃	14-192	AB		C
〃	14-194	AB		C
〃	14-195	AB		C
〃	14-196	AB		C
〃	14-210	AB		C
〃	14-212	AB		C
〃	14-229	AB		C
VCKYCY1EB333K	16-22	AB		C
VCKYCY1EB683K	16-11	AD		C
VCKYCY1EF104Z	14-54	AA		C
〃	14-55	AA		C
〃	14-57	AA		C
〃	14-58	AA		C
〃	14-69	AA		C
〃	14-78	AA		C
〃	14-83	AA		C
〃	14-86	AA		C
〃	14-87	AA		C
〃	14-88	AA		C
〃	14-89	AA		C
〃	14-91	AA		C
〃	14-92	AA		C
〃	14-95	AA		C
〃	14-96	AA		C
〃	14-97	AA		C
〃	14-98	AA		C
〃	14-102	AA		C
〃	14-103	AA		C
〃	14-109	AA		C
〃	14-110	AA		C
〃	14-111	AA		C
〃	14-112	AA		C
〃	14-113	AA		C
〃	14-114	AA		C
〃	14-116	AA		C
〃	14-117	AA		C
〃	14-118	AA		C
〃	14-120	AA		C
〃	14-121	AA		C
〃	14-122	AA		C
〃	14-123	AA		C
〃	14-124	AA		C
〃	14-125	AA		C
〃	14-126	AA		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VCKYCY1EF104Z	14-127	AA		C
〃	14-128	AA		C
〃	14-129	AA		C
〃	14-130	AA		C
〃	14-131	AA		C
〃	14-133	AA		C
〃	14-134	AA		C
〃	14-135	AA		C
〃	14-136	AA		C
〃	14-139	AA		C
〃	14-144	AA		C
〃	14-145	AA		C
〃	14-147	AA		C
〃	14-149	AA		C
〃	14-150	AA		C
〃	14-152	AA		C
〃	14-153	AA		C
〃	14-154	AA		C
〃	14-157	AA		C
〃	14-158	AA		C
〃	14-161	AA		C
〃	14-162	AA		C
〃	14-168	AA		C
〃	14-169	AA		C
〃	14-171	AA		C
〃	14-174	AA		C
〃	14-180	AA		C
〃	14-181	AA		C
〃	14-182	AA		C
〃	14-183	AA		C
〃	14-184	AA		C
〃	14-185	AA		C
〃	14-188	AA		C
〃	14-189	AA		C
〃	14-193	AA		C
〃	14-198	AA		C
〃	14-199	AA		C
〃	14-201	AA		C
〃	14-202	AA		C
〃	14-203	AA		C
〃	14-206	AA		C
〃	14-207	AA		C
〃	14-208	AA		C
〃	14-209	AA		C
〃	14-214	AA		C
〃	14-216	AA		C
〃	14-219	AA		C
〃	14-220	AA		C
〃	14-221	AA		C
〃	14-222	AA		C
〃	14-223	AA		C
〃	14-224	AA		C
〃	14-225	AA		C
〃	14-226	AA		C
〃	14-227	AA		C
〃	14-228	AA		C
〃	14-234	AA		C
〃	14-235	AA		C
〃	14-237	AA		C
〃	16-5	AA		C
〃	16-6	AA		C
VCKYCY1HB102K	14-115	AA		C
〃	14-137	AA		C
〃	14-142	AA		C
〃	14-143	AA		C
〃	14-151	AA		C
〃	14-163	AA		C
〃	14-170	AA		C
〃	14-191	AA		C
〃	14-200	AA		C
〃	14-215	AA		C
〃	14-218	AA		C
〃	16-2	AA		C
〃	16-3	AA		C
〃	16-4	AA		C
〃	16-7	AA		C
〃	16-8	AA		C
〃	16-10	AA		C
〃	16-14	AA		C
〃	16-18	AA		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VCKYCY1HB102K	16-19	AA		C
〃	16-20	AA		C
〃	16-21	AA		C
〃	16-23	AA		C
〃	16-24	AA		C
〃	16-25	AA		C
〃	16-26	AA		C
〃	16-27	AA		C
〃	16-28	AA		C
〃	16-29	AA		C
〃	16-30	AA		C
〃	16-31	AA		C
〃	16-32	AA		C
〃	16-33	AA		C
VCKYCY1HB103K	14-75	AA		C
〃	14-190	AA		C
〃	14-238	AA		C
〃	16-9	AA		C
〃	16-12	AA		C
〃	16-13	AA		C
〃	16-15	AA		C
〃	16-16	AA		C
VCKYCY1HB222K	14-59	AA		C
〃	14-60	AA		C
〃	14-61	AA		C
〃	14-62	AA		C
〃	14-63	AA		C
〃	14-64	AA		C
〃	14-65	AA		C
〃	14-66	AA		C
〃	14-67	AA		C
〃	14-93	AA		C
〃	14-146	AA		C
〃	14-155	AA		C
〃	14-156	AA		C
〃	14-159	AA		C
〃	14-160	AA		C
〃	14-204	AA		C
〃	14-205	AA		C
VCKYCY1HB332K	14-77	AA		C
VCKYCY1HF104Z	14-68	AA		C
〃	14-230	AA		C
〃	14-236	AA		C
VCKYCZ0JF105Z	14-38	AC		C
〃	14-39	AC		C
〃	14-40	AC		C
〃	14-41	AC		C
〃	14-42	AC		C
〃	14-43	AC		C
〃	14-44	AC		C
〃	14-45	AC		C
〃	14-46	AC		C
〃	14-47	AC		C
〃	14-48	AC		C
〃	14-49	AC		C
〃	14-50	AC		C
〃	14-51	AC		C
〃	14-52	AC		C
〃	14-53	AC		C
VCKYCZ1CF104Z	14-35	AB		C
〃	14-36	AB		C
VCKYCZ1EB102K	14-37	AA		C
VCKYPA1HB103K	15-6	AA		C
VCKYPU1HB102K	15-9	AA		C
〃	15-11	AA		C
VCKYPU1HB471K	15-15	AA		C
VCKYPU1HF223Z	15-18	AA		C
VCKYTQ1EB224K	14-94	AB		C
VCKYTV1CF225Z	14-81	AD		C
〃	14-106	AD		C
VCKYTV1HB102K	14-76	AA		C
VCKYTV1HB222K	14-90	AA		C
VCQYNA1HM333K	15-10	AA		C
〃	15-16	AA		C
VHDDAN202U/-1	14-287	AB		B
VHDDA204K//-1	14-289	AC		B
〃	14-291	AC		B
VHDDSS133//-1	15-21	AA		B
〃	15-22	AA		B
VHDGPP20J//-1	14-288	AE		B

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VHDHRW0202B-1	14-292	AD		B
VHDMC2850++-1	14-286	AE		B
VHDSR104///-1	14-281	AF		B
〃	14-282	AF		B
〃	14-283	AF		B
〃	14-284	AF		B
VHD1SS322//-1	14-285	AC		B
VHD1SS355//-1	14-290	AB		B
〃	14-293	AB		B
〃	14-294	AB		B
〃	16-53	AB		B
VHEHZ2C1///-1	15-57	AA		B
〃	15-58	AA		B
〃	15-62	AA		B
〃	15-63	AA		B
VHEHZ27-1//-1	15-59	AB		B
VHEMTZJ8R2B-1	15-61	AC		B
VHE1ZC15///-1	15-60	AC		B
VHIBA10393F-1	14-323	AC		B
VHIF032/TA70B	14-314		N	B
VHILB1845//-1	14-305	AY		B
VHINJM2113M-1	14-332	AG		B
VHINJM2904D-1	15-23	AG		B
VHINJM2904M-2	14-310	AG		B
〃	14-330	AG		B
VHIPST596CMT1	14-318	AF		B
VHISM8578BV-1	14-322	AK		B
VHITC58128A-1	14-326	BH	N	B
VHIULN2003ADR	16-54	AF		B
VHI74LV245APW	14-327	AG		B
VHI74VHC02F-1	16-56	AF		B
VHPPC814X//-1	15-29	AE		B
VHPPC817X4/-1	15-28	AC		B
VHVICPS05//-1	14-295	AA		B
VHVICPS07//-1	14-302	AA		A
VHVICPS10//-1	14-296	AG		B
〃	14-299	AG		B
〃	14-300	AG		B
VHVICPS18//-1	14-301	AE		B
VHVRA391PV6-1	15-1	AE		B
VHVRA501PC6-1	15-2	AG		B
〃	15-3	AG		B
VRD-HT2EY100J	14-389	AA		C
〃	15-38	AA		C
〃	15-51	AA		C
〃	15-54	AA		C
VRD-HT2EY103J	15-52	AA		C
〃	15-53	AA		C
VRD-HT2EY183J	15-37	AA		C
VRD-HT2EY201J	15-42	AA		C
VRD-HT2EY223J	15-45	AA		C
〃	15-46	AA		C
〃	15-48	AA		C
〃	15-50	AA		C
VRD-HT2EY300J	15-41	AA		C
VRD-HT2EY303J	15-39	AA		C
VRD-HT2EY332J	15-49	AA		C
VRD-HT2EY391J	15-43	AA		C
VRD-HT2EY621J	15-44	AA		C
VRD-HT2EY751J	15-47	AA		C
VRD-HT2EY910J	15-40	AA		C
VRD-HT2HY223J	15-36	AA		C
VRS-CY1JB000J	14-211	AA		C
〃	14-233	AA		C
〃	14-336	AA		C
〃	14-337	AA		C
〃	14-338	AA		C
〃	14-339	AA		C
〃	14-340	AA		C
〃	14-403	AA		C
〃	14-404	AA		C
〃	14-405	AA		C
〃	14-406	AA		C
〃	14-407	AA		C
〃	14-408	AA		C
〃	14-409	AA		C
〃	14-410	AA		C
〃	14-412	AA		C
〃	14-415	AA		C
〃	14-417	AA		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VRS-CY1JB000J	14-418	AA		C
〃	14-440	AA		C
〃	14-445	AA		C
〃	14-450	AA		C
〃	14-451	AA		C
〃	14-452	AA		C
〃	14-458	AA		C
〃	14-466	AA		C
〃	14-468	AA		C
〃	14-471	AA		C
〃	14-472	AA		C
〃	14-488	AA		C
〃	14-489	AA		C
〃	14-490	AA		C
〃	14-491	AA		C
〃	14-492	AA		C
〃	14-520	AA		C
〃	14-534	AA		C
〃	14-539	AA		C
〃	14-544	AA		C
〃	14-553	AA		C
〃	14-554	AA		C
〃	14-557	AA		C
〃	14-560	AA		C
〃	14-562	AA		C
〃	14-570	AA		C
〃	14-572	AA		C
〃	14-579	AA		C
〃	14-580	AA		C
〃	14-581	AA		C
〃	14-592	AA		C
〃	14-606	AA		C
〃	14-609	AA		C
〃	14-611	AA		C
〃	14-612	AA		C
〃	14-613	AA		C
〃	14-614	AA		C
〃	14-615	AA		C
〃	14-616	AA		C
〃	14-617	AA		C
〃	14-618	AA		C
〃	14-619	AA		C
〃	14-620	AA		C
〃	14-621	AA		C
〃	14-622	AA		C
〃	14-623	AA		C
〃	14-624	AA		C
〃	14-625	AA		C
〃	14-626	AA		C
〃	14-628	AA		C
〃	14-630	AA		C
〃	14-632	AA		C
〃	14-633	AA		C
〃	14-638	AA		C
〃	14-644	AA		C
〃	14-645	AA		C
〃	14-648	AA		C
〃	14-656	AA		C
〃	14-657	AA		C
〃	14-658	AA		C
〃	14-659	AA		C
〃	14-660	AA		C
〃	14-661	AA		C
〃	14-662	AA		C
〃	14-663	AA		C
〃	14-664	AA		C
〃	14-665	AA		C
〃	14-666	AA		C
〃	14-667	AA		C
〃	14-668	AA		C
〃	14-669	AA		C
〃	14-670	AA		C
〃	14-674	AA		C
〃	14-677	AA		C
〃	14-678	AA		C
〃	14-691	AA		C
〃	14-692	AA		C
〃	14-693	AA		C
〃	14-695	AA		C
〃	14-697	AA		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VRS-CY1JB000J	14-709	AA		C
〃	14-710	AA		C
〃	14-713	AA		C
〃	14-725	AA		C
〃	14-727	AA		C
〃	14-728	AA		C
〃	14-729	AA		C
〃	14-730	AA		C
〃	14-731	AA		C
〃	14-732	AA		C
〃	14-733	AA		C
〃	14-734	AA		C
〃	14-743	AA		C
〃	14-744	AA		C
〃	14-745	AA		C
〃	14-746	AA		C
〃	14-747	AA		C
〃	14-748	AA		C
〃	14-749	AA		C
〃	14-750	AA		C
〃	14-751	AA		C
〃	14-752	AA		C
〃	14-753	AA		C
〃	14-754	AA		C
〃	14-755	AA		C
〃	14-756	AA		C
〃	14-759	AA		C
〃	14-763	AA		C
〃	14-769	AA		C
〃	14-783	AA		C
〃	14-784	AA		C
〃	14-785	AA		C
〃	14-788	AA		C
〃	14-790	AA		C
〃	14-791	AA		C
〃	14-793	AA		C
〃	16-77	AA		C
〃	16-79	AA		C
〃	16-90	AA		C
〃	16-94	AA		C
VRS-CY1JB100J	14-416	AA		C
〃	14-675	AA		C
VRS-CY1JB101J	14-459	AA		C
〃	14-538	AA		C
〃	14-568	AA		C
〃	14-576	AA		C
〃	14-577	AA		C
〃	14-578	AA		C
〃	14-591	AA		C
〃	14-631	AA		C
〃	14-646	AA		C
〃	14-647	AA		C
〃	14-698	AA		C
〃	14-699	AA		C
〃	14-707	AA		C
〃	14-708	AA		C
〃	14-715	AA		C
〃	14-716	AA		C
〃	16-83	AA		C
VRS-CY1JB102J	14-429	AA		C
〃	14-433	AA		C
〃	14-434	AA		C
〃	14-441	AA		C
〃	14-536	AA		C
〃	14-688	AA		C
〃	14-689	AA		C
〃	14-720	AA		C
〃	14-764	AA		C
〃	14-782	AA		C
〃	14-787	AA		C
〃	14-789	AA		C
VRS-CY1JB103F	16-71	AB		C
VRS-CY1JB103J	14-430	AA		C
〃	14-442	AA		C
〃	14-467	AA		C
〃	14-495	AA		C
〃	14-521	AA		C
〃	14-522	AA		C
〃	14-524	AA		C
〃	14-525	AA		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VRS-CY1JB103J	14-526	AA		C
〃	14-529	AA		C
〃	14-530	AA		C
〃	14-533	AA		C
〃	14-535	AA		C
〃	14-537	AA		C
〃	14-541	AA		C
〃	14-542	AA		C
〃	14-543	AA		C
〃	14-545	AA		C
〃	14-546	AA		C
〃	14-547	AA		C
〃	14-549	AA		C
〃	14-550	AA		C
〃	14-551	AA		C
〃	14-555	AA		C
〃	14-565	AA		C
〃	14-566	AA		C
〃	14-567	AA		C
〃	14-571	AA		C
〃	14-582	AA		C
〃	14-583	AA		C
〃	14-584	AA		C
〃	14-585	AA		C
〃	14-586	AA		C
〃	14-587	AA		C
〃	14-598	AA		C
〃	14-629	AA		C
〃	14-635	AA		C
〃	14-637	AA		C
〃	14-641	AA		C
〃	14-679	AA		C
〃	14-683	AA		C
〃	14-684	AA		C
〃	14-694	AA		C
〃	14-696	AA		C
〃	14-700	AA		C
〃	14-711	AA		C
〃	14-712	AA		C
〃	14-714	AA		C
〃	14-717	AA		C
〃	14-719	AA		C
〃	14-724	AA		C
〃	14-726	AA		C
〃	14-735	AA		C
〃	14-758	AA		C
〃	14-768	AA		C
〃	14-771	AA		C
〃	14-773	AA		C
〃	14-774	AA		C
〃	14-775	AA		C
〃	14-776	AA		C
〃	14-777	AA		C
〃	14-778	AA		C
〃	14-779	AA		C
〃	14-780	AA		C
〃	14-781	AA		C
〃	14-786	AA		C
〃	16-68	AA		C
〃	16-69	AA		C
〃	16-74	AA		C
〃	16-75	AA		C
〃	16-80	AA		C
〃	16-81	AA		C
〃	16-82	AA		C
〃	16-84	AA		C
〃	16-85	AA		C
〃	16-89	AA		C
〃	16-97	AA		C
〃	16-103	AA		C
VRS-CY1JB104J	14-760	AA		C
VRS-CY1JB105J	14-431	AA		C
〃	14-456	AA		C
〃	14-527	AA		C
VRS-CY1JB113F	14-465	AD		C
〃	16-72	AD		C
VRS-CY1JB123F	14-463	AA		C
VRS-CY1JB152F	16-78	AD		C
VRS-CY1JB152J	14-414	AA		C
VRS-CY1JB154J	14-761	AA		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VRS-CY1JB182J	14-643	AA		C
VRS-CY1JB2R0J	14-792	AD		C
VRS-CY1JB203J	14-569	AA		C
〃	14-680	AA		C
〃	14-682	AA		C
〃	14-686	AA		C
VRS-CY1JB204F	14-439	AA		C
VRS-CY1JB221J	14-528	AA		C
VRS-CY1JB222F	16-73	AB		C
VRS-CY1JB222J	14-627	AA		C
〃	14-681	AA		C
〃	14-742	AA		C
〃	16-76	AA		C
〃	16-91	AA		C
VRS-CY1JB223F	14-462	AC		C
VRS-CY1JB223J	14-766	AA		C
VRS-CY1JB271J	14-419	AA		C
〃	14-420	AA		C
〃	14-421	AA		C
〃	14-422	AA		C
〃	14-423	AA		C
〃	14-424	AA		C
〃	14-425	AA		C
〃	14-426	AA		C
〃	14-427	AA		C
〃	14-461	AA		C
〃	14-508	AA		C
〃	14-509	AA		C
〃	14-510	AA		C
〃	14-511	AA		C
〃	14-512	AA		C
〃	14-634	AA		C
〃	14-636	AA		C
〃	14-639	AA		C
〃	14-640	AA		C
VRS-CY1JB302J	14-413	AA		C
〃	14-762	AA		C
VRS-CY1JB303J	14-436	AA		C
〃	14-438	AA		C
VRS-CY1JB330J	14-446	AA		C
〃	14-447	AA		C
〃	14-448	AA		C
〃	14-449	AA		C
〃	14-453	AA		C
〃	14-454	AA		C
〃	14-455	AA		C
〃	14-474	AA		C
〃	14-475	AA		C
〃	14-476	AA		C
〃	14-477	AA		C
〃	14-478	AA		C
〃	14-479	AA		C
〃	14-480	AA		C
〃	14-481	AA		C
〃	14-482	AA		C
〃	14-483	AA		C
〃	14-484	AA		C
〃	14-485	AA		C
〃	14-486	AA		C
〃	14-487	AA		C
〃	14-493	AA		C
〃	14-504	AA		C
〃	14-505	AA		C
〃	14-506	AA		C
〃	14-507	AA		C
〃	14-513	AA		C
〃	14-514	AA		C
〃	14-519	AA		C
〃	14-523	AA		C
〃	14-531	AA		C
〃	14-532	AA		C
〃	14-540	AA		C
〃	14-548	AA		C
〃	14-552	AA		C
〃	14-556	AA		C
〃	14-575	AA		C
〃	14-593	AA		C
〃	14-594	AA		C
〃	14-595	AA		C
〃	14-596	AA		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VRS-CY1JB330J	14-597	AA		C
〃	14-600	AA		C
〃	14-601	AA		C
〃	14-602	AA		C
〃	14-649	AA		C
〃	14-650	AA		C
〃	14-651	AA		C
〃	14-652	AA		C
〃	14-653	AA		C
〃	14-654	AA		C
〃	14-671	AA		C
〃	14-672	AA		C
〃	14-673	AA		C
〃	14-702	AA		C
〃	16-86	AA		C
〃	16-95	AA		C
〃	16-96	AA		C
〃	16-100	AA		C
〃	16-108	AA		C
〃	16-109	AA		C
VRS-CY1JB332J	14-494	AA		C
〃	14-496	AA		C
〃	14-497	AA		C
〃	14-498	AA		C
〃	14-499	AA		C
〃	14-500	AA		C
〃	14-501	AA		C
〃	14-502	AA		C
〃	14-503	AA		C
〃	14-722	AA		C
〃	14-737	AA		C
〃	14-738	AA		C
〃	14-739	AA		C
〃	14-740	AA		C
〃	14-741	AA		C
〃	14-772	AA		C
VRS-CY1JB333F	14-464	AA		C
VRS-CY1JB333J	14-469	AA		C
〃	14-515	AA		C
〃	14-516	AA		C
〃	14-517	AA		C
〃	14-518	AA		C
〃	14-687	AA		C
〃	16-70	AA		C
VRS-CY1JB433F	14-437	AC		C
VRS-CY1JB471J	14-411	AA		C
〃	14-428	AA		C
〃	14-460	AA		C
〃	14-685	AA		C
VRS-CY1JB472F	16-65	AD		C
VRS-CY1JB472J	14-558	AA		C
〃	14-559	AA		C
〃	14-561	AA		C
〃	14-563	AA		C
〃	14-564	AA		C
〃	14-573	AA		C
〃	14-574	AA		C
〃	14-589	AA		C
〃	14-590	AA		C
〃	14-599	AA		C
〃	14-603	AA		C
〃	14-604	AA		C
〃	14-605	AA		C
〃	14-607	AA		C
〃	14-608	AA		C
〃	14-610	AA		C
〃	14-642	AA		C
〃	14-736	AA		C
〃	16-67	AA		C
〃	16-87	AA		C
〃	16-88	AA		C
〃	16-92	AA		C
〃	16-93	AA		C
〃	16-99	AA		C
〃	16-102	AA		C
〃	16-104	AA		C
〃	16-105	AA		C
〃	16-107	AA		C
〃	16-110	AA		C
VRS-CY1JB473J	16-98	AA		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VRS-CY1JB473J	16-101	AA		C
〃	16-106	AA		C
VRS-CY1JB511J	14-765	AA		C
VRS-CY1JB512F	16-66	AD		C
VRS-CY1JB561J	14-457	AA		C
VRS-CY1JB562J	14-588	AA		C
〃	14-723	AA		C
VRS-CY1JB563F	14-432	AC		C
〃	14-435	AC		C
VRS-CY1JB563J	14-770	AA		C
VRS-CY1JB623J	14-655	AA		C
VRS-CY1JB680J	14-676	AA		C
〃	14-690	AA		C
〃	14-701	AA		C
〃	14-703	AA		C
〃	14-704	AA		C
〃	14-705	AA		C
〃	14-706	AA		C
〃	14-718	AA		C
VRS-CZ1JB000J	14-367	AA		C
〃	14-399	AA		C
〃	14-400	AA		C
〃	14-401	AA		C
VRS-CZ1JB100J	14-365	AA		C
〃	14-366	AA		C
〃	14-377	AA		C
〃	14-378	AA		C
〃	14-379	AA		C
〃	14-385	AA		C
〃	14-386	AA		C
〃	14-387	AA		C
VRS-CZ1JB101J	14-372	AA		C
〃	14-373	AA		C
〃	14-384	AA		C
〃	14-398	AA		C
〃	14-402	AA		C
VRS-CZ1JB102J	14-376	AA		C
VRS-CZ1JB103J	14-390	AA		C
〃	14-391	AA		C
〃	14-392	AA		C
〃	14-393	AA		C
〃	14-394	AA		C
〃	14-395	AA		C
〃	14-396	AA		C
〃	14-397	AA		C
VRS-CZ1JB104J	14-375	AA		C
VRS-CZ1JB105J	14-368	AD		C
VRS-CZ1JB221J	14-369	AD		C
〃	14-370	AD		C
〃	14-380	AD		C
〃	14-381	AD		C
〃	14-382	AD		C
〃	14-383	AD		C
VRS-CZ1JB330J	14-388	AA		C
VRS-CZ1JB333J	14-363	AA		C
〃	14-364	AA		C
VRS-CZ1JB472J	14-374	AA		C
VRS-HT3AAR47J	14-361	AC		C
〃	14-362	AC		C
VRS-HT3AA101J	14-371	AA		C
VRS-HT3AA133J	15-35	AB		C
VRS-TP2BD000J	14-297	AA		C
〃	14-298	AA		C
〃	14-757	AA		C
VRS-TS2AD000J	14-444	AA		C
〃	14-470	AA		C
〃	14-473	AA		C
VRS-TS2AD102J	14-443	AA		C
VRSCY1JB4422F	14-721	AC		C
〃	14-767	AC		C
VSDTB114EK/-1	16-58	AD		B
VSDTC114YU/-1	16-61	AC		B
〃	16-62	AC		B
〃	16-63	AC		B
〃	16-64	AC		B
VSDTD123YK/-1	16-60	AC		B
VSFMMT717//-1	14-350	AC		B
VSKRA102S//-1	14-354	AD		B
VSKRC106M//-1	15-32	AD		B
〃	15-33	AD		B

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VSKRC106S//-1	14-351	AD		B
〃	14-352	AD		B
〃	14-355	AD		B
〃	14-356	AD		B
〃	14-357	AD		B
〃	14-358	AD		B
〃	14-359	AD		B
〃	14-360	AD		B
VSRT1N141M/-1	14-343	AB		B
〃	14-353	AB		B
VS2SA1037KS-1	16-59	AB		B
VS2SC2411KR-1	14-344	AC		B
〃	14-347	AC		B
VS2SC2712GR-1	14-348	AB		B
VS2SD1164//-1	14-342	AE		B
VS2SD1200FR-1	15-31	AE		B
VS2SD1624T/-1	14-349	AD		B
VS2SD1664Q/-1	14-346	AD		B
VS2SD592A-S-1	15-30	AK		B
VS2SJ243///-1	14-345	AD		B
[X]				
XEBSD20P08000	4-B2	AA		C
XEBSD30P10000	1-B6	AA		C
〃	2-B3	AA		C
〃	3-B1	AA		C
〃	4-B3	AA		C
〃	5-B1	AA		C
〃	6-B1	AA		C
〃	11-B2	AA		C
〃	12-B3	AA		C
XEBSE26P08000	4-B1	AA		C
XEBSE30P10000	1-B3	AA		C
〃	4-B4	AA		C
XHBSD30P06000	1-B2	AA		C
〃	6-B2	AA		C
〃	12-B4	AA		C
XHBSD30P10000	12-B5	AA		C
XHBSE30P06000	1-B8	AA		C
XHBSE30P10000	1-B7	AA		C
XHBSE30P12000	12-B6	AA		C
XRESJ50-06000	6-E1	AA		C
[0]				
0AV1390000181	17-17	AE		C
0AV1390000189	17-19	AC		C
0AV1390000202	17-6	AQ		C
0AV1390000203	17-15	AF		C
0AV1480000087	17-1	AD		C
〃	17-2	AD		C
0AV1480000088	17-8	AC		C
〃	17-21	AC		C
〃	17-22	AC		C
0AV1480000089	17-9	AC		C
〃	17-10	AC		C
〃	17-18	AC		C
0AV1480000090	17-11	AC		C
0AV1480000091	17-12	AC		C
0AV1480000092	17-23	AC		C
0AV1690000088	17-16	AC		C
〃	17-20	AC		C
0AV1690000106	17-3	AD		C
〃	17-4	AD		C
〃	17-5	AD		C
0AV1690000117	17-7	AC		C
0AV1690000118	17-13	AD		C
〃	17-14	AD		C
0AV2011013010	17-94	AA		C
0AV2011023030	17-78	AC		C
0AV2011033010	17-100	AA		C
〃	17-102	AA		C
〃	17-105	AA		C
〃	17-112	AA		C
〃	17-113	AA		C
〃	17-116	AA		C
〃	17-117	AA		C
〃	17-123	AA		C
0AV2011053020	17-77	AA		C
0AV2012223010	17-103	AA		C
〃	17-107	AA		C
〃	17-111	AA		C
〃	17-114	AA		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
0AV2012223010	17-115	AA		C
0AV2012713010	17-89	AA		C
〃	17-121	AA		C
0AV2012733010	17-91	AA		C
0AV2013303030	17-118	AA		C
0AV2013313010	17-90	AA		C
0AV2013323010	17-97	AA		C
0AV2013333010	17-83	AA		C
0AV2013343010	17-84	AB		C
0AV2013913010	17-82	AA		C
〃	17-95	AA		C
0AV2014703010	17-101	AA		C
0AV2014713010	17-104	AA		C
0AV2014723010	17-88	AA		C
〃	17-96	AA		C
〃	17-106	AA		C
0AV2014733010	17-85	AA		C
〃	17-119	AA		C
〃	17-122	AA		C
0AV2016823010	17-124	AA		C
0AV2016833010	17-120	AA		C
0AV2021223040	17-110	AC		C
0AV2990007000	17-108	AC		C
0AV2990009000	17-98	AC		C
0AV2990039000	17-93	AC		C
0AV2990042000	17-81	AC		C
0AV2990046000	17-109	AC		C
0AV2990092000	17-79	AC		C
0AV2990093000	17-80	AC		C
0AV2990094000	17-86	AC		C
0AV2990095000	17-87	AC		C
0AV2990096000	17-92	AC		C
0AV2990097000	17-99	AC		C
0AV3000933100	17-76	AC		B
0AV3001015500	17-68	AC		B
〃	17-69	AC		B
〃	17-72	AC		B
〃	17-75	AC		B
0AV3021741100	17-67	AC		B
〃	17-71	AC		B
0AV3021815500	17-73	AC		B
〃	17-74	AC		B
0AV3040303000	17-70	AN		B
0AV3043326000	17-66	AL		B
0AV3050086000	17-33	AB		B
〃	17-34	AB		B
〃	17-35	AB		B
〃	17-39	AB		B
〃	17-42	AB		B
〃	17-44	AB		B
〃	17-45	AB		B
〃	17-47	AB		B
〃	17-48	AB		B
〃	17-49	AB		B
0AV3050098000	17-41	AG		B
0AV3050100000	17-37	AG		B
0AV3060046000	17-29	AC		B
〃	17-30	AC		B
〃	17-31	AC		B
〃	17-32	AC		B
0AV3070113000	17-38	AE		B
0AV3070126000	17-40	AC		B
0AV3070133000	17-36	AG		B
0AV3070134000	17-43	AE		B
0AV3070135000	17-46	AC		B
0AV3070136000	17-50	AC		B
0AV3080421100	17-64	AE		B
0AV3090082000	17-57	AD		B
〃	17-58	AD		B
0AV3160036000	17-149	AQ		B
0AV3170001000	17-146	AE		B
0AV3180000005	17-65	AL		B
0AV4000137111	17-147	AR		B
0AV4050028000	17-63	AF		C
0AV4070068000	17-59	AE		C
〃	17-60	AE		C
0AV4080012000	17-62	AM		C
0AV4120015000	17-61	AC		C
0AV5030036000	17-25	AC		C
0AV5030088000	17-26	AD		C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
0AV5030089000	17-27	AG		C
0AV5030139000	17-24	AE		C
0AV5040012000	17-145	AM		C
0AV5050005000	17-154	AA		C
0AV5060067000	17-53	AF		A
〃	17-54	AF		A
0AV5060096000	17-51	AF		A
0AV5060097000	17-52	AE		A
〃	17-55	AE		A
0AV5070000016	17-56	AG		A
0AV5080009000	17-144	AP		B
0AV5110001000	17-130	AA		C
〃	17-131	AA		C
〃	17-132	AA		C
〃	17-141	AA		C
0AV5110002000	17-143	AA		C
0AV5110003000	17-133	AA		C
〃	17-137	AA		C
0AV5110004000	17-127	AA		C
〃	17-134	AA		C
〃	17-142	AA		C
0AV5110006000	17-126	AA		C
〃	17-136	AA		C
〃	17-138	AA		C
0AV5110011000	17-128	AB		C
0AV5110012000	17-125	AB		C
〃	17-129	AB		C
〃	17-139	AB		C
0AV5110018000	17-135	AB		C
〃	17-140	AB		C
0AV5140023000	17-148	AE		B
0AV5150006000	17-28	AH		C
0AV5190002000	17-150	AF		B
〃	17-151	AF		B
〃	17-152	AF		B
0AV5190025000	17-153	AK		B
0AV6113121011	17-155	AH		C
0AV6114128011	17-156	AF		C
0AV6114128111	17-157	AF		C
0AV6114128211	17-158	AF		C
0AV7414138411	17-159	AD		D
0AV8117730314	17-160	AB		C
0AV8117730414	17-161	AB		C
0KW4127011301	22-901	AY		E
0KW4127357102	1-63		N	C
0KW4127357202	1-64		N	C
0KW4127357302	1-65		N	C
0KW4127620701	21-901	BN		E
0KW9739031213	1-B9	AB	N	C

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK

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